

File cabinet, courtesy of the Smithsonian Institution

"I've pretty much given up trying to find some sort of intact file cabinet. But while I was at the compound for the Port Authority Police, this ball of metal about the size of a basketball was delivered to them."

- David Shayt, September 11 Collecting Curator and Museum Specialist, Division of Cultural History, National Museum of American History, Smithsonian Institution in "Relics from the Rubble," A&E TV, 2002 (see also http://americanhistory.si.edu/september11/collection/transcript.asp?ID=49)

"I never saw a file cabinet, never saw a desk, a chair, never saw a telephone, never saw any type of office furniture. There is no glass. It just disappeared and has become part of this fluffy white or gray dust."

- Assistant Chief of Department, FDNY, Harry Meyers in Dennis Smith's <u>Report from Ground Zero: The Story of the Rescue Efforts at the World Trade Center</u>, Viking/Penguin, New York, 2002, p. 163.

"In an office building you have chairs, tables, electrical equipment, bathrooms, all sorts of fittings and there there was nothing. It was all pulverized into dust."

- Eddie Bowles, "Everything Was Pulverised': A New York Firefighter Reflects Ten Years On," thejournal.ie, Sept. 11, 2011.

>> <u>Skip to video</u> of the same title here above, many similar quotes collected and arranged by this author, with timed text and source info here in <u>Appendix 1</u>. If the video is gone from YouTube, try <u>archive.org</u>.

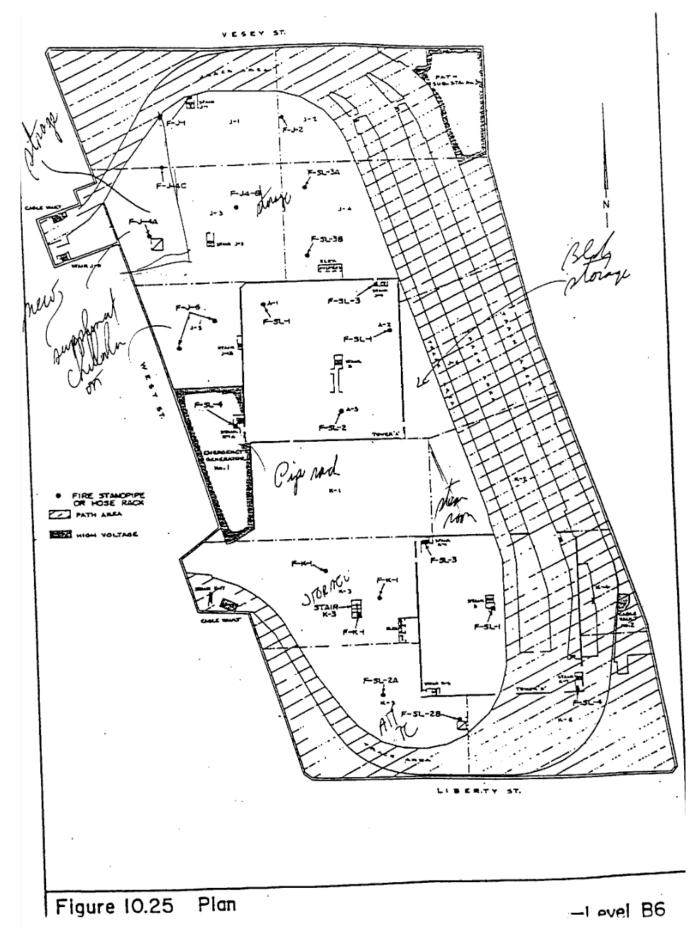
"[T]hose heading the cleanup and those removing the rubble at ground zero are trumpeting nothing short of a construction miracle.... The cleanup, it turns out, will take no more than nine months and cost no more than \$750 million."

- Charlie LeDuff and Steven Greenhouse, "Far From Business as Usual: A Quick Job at Ground Zero," *New York Times*, Jan. 21, 2002.

# 9/11 Debris: An Investigation of Ground Zero

by Matt Nelson

2018



Merritt & Harris, Inc. Property Condition Assessment of WTC Portfolio, Subgrade, 2000 (PDF 8.29 MB). Up to 75 ft. deep.



World Trade Center June 2000 and Ground Zero shot by IKONOS satellite 9/15/01 (Credit: Space Imaging)

Introduction Available Images Cheap and Fast	5 8 17		
MIRACLE		17 21	
THE BIG FOUR BUILDING 7		24	
INVESTIGATIONS		32	
- Second Plane Impact Error			37
FRESH KILLS		41	
RECYCLE		47	
MAP: "Moving Debris by Barge," New York Times		51	
<u>TONNAGE</u> - WTC Debris Weight; Truckloads; Barges		52	55; 60; 65
NYC DDC		71	55, 60, 65
Bodies	76		
MISSING	, ,	81	
TERRORISTS' DNA		92	
Survivors	94	<b>0</b> _	
EVACUEES - 102 MINUTES	٠.	100	
- 9 Seconds; Floor 22			105; 129
Black Boxes Somewhere	140		
Airplane Debris	143		
- FEMA's Fuselage Fib; The Engines			158; 165
Specific Items Recovered	177		
NOT RECOVERED		182	
MOLTEN STEEL		191	
<u>Dust</u>	201		
HOT CLOUD		203	
SCIENTIFIC STUDIES		205	
SAFE TO BREATHE		211	

OTHER TOXINS
Appendix 1: Video timed text captions with sources
Appendix 2: Images mentioned
Appendix 3: Excerpt from Kevin R. Ryan, Another Nineteen
250

Appendix 4: Changes to previous editions

### Dear Reader,

This is the culmination of 9 years' research. It has grown into a new breed of book, one containing 1,000+ links to sources, both obscure and official. More images, videos and stories are linked below than ever before in a work of nonfiction, I bet. I challenge you to read it all.

257

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**About the author:** Matt Nelson got a B.A. in English (Magna Cum Laude) with a concentration in creative writing – and created non-profit site <a href="http://www.911conspiracy.tv">http://www.911conspiracy.tv</a>, now home of the 9/11 video and TV archive. No advertisements or sales on the website. (YouTube may arbitrarily intrude.) Reach out to matt(at)911conspiracy.tv.

About the method of notation: Sources for information will be listed as the info is presented, without numbers for referencing footnotes or end notes. This method will encourage readers' own immediate confirmation of facts and figures. Apologies for no traditional bibliography. You'll have to trust me when I quote a book not found online. Also, the image and video links are an integral part of investigating. Click web links at your own risk. No ads are mine. Due to the temporary nature of information on the Internet, supplemental material and sources are often backed up with mirror links and downloads. In the event a hyperlink dies, or an article is removed, try using the Internet Archive <a href="Wayback Machine">Wayback Machine</a>, which has helped numerous times in the pages below. If a video has disappeared, or a link is broken, contact matt(at) 911conspiracy.tv. Hold the Ctrl button when clicking links to open a new window and avoid losing your place.

**Acknowledgments:** I would like to thank the dedicated 9/11 researchers around the world who have often been branded "conspiracy theorists." Many are anonymous. You know who you are. Big thanks also to the so-called debunkers, who have helped compile evidence to deflate many unfortunate myths.

**Dedication:** For the victims of the September 11, 2001 World Trade Center attacks, their numbers always growing, I repeat the words of the 9/11 anthem: "We will never forget." We will never forget.

### Introduction

This book began as a mathematical effort to reconcile the total weight of the seven WTC buildings – the entire World Trade Center complex including basements – with the total weight of debris reportedly removed from Ground Zero. The basic premise was that if I could get accurate numbers for both the buildings *and* their post-9/11 debris, I could simply subtract debris weight from structure weight to learn how much building material was pulverized into the dust and ash clouds that turned day into night. How much was incinerated?

Were those dust clouds too dense for gravity-driven collapses? *Were* the debris piles consistent with fires and structural failures? Or did the answers to these questions suggest planned demolition and therefore "inside job?"

While researching, I discovered the math had already been done. (Gregory Urich, "Analysis of the Mass and Potential Energy of World Trade Center Tower 1," *Journal of 9/11 Studies*, 2007.) The WTC wasn't quite as massive as the reports boasted, I learned. As far as the before and after comparison went, everything seemed to add up on paper. But the stark images and disturbing witness testimony of extreme ruin compelled me to find more sources. So I uncovered, collected, and compared as many of these various numbers as possible. To put it simply, the numbers by themselves didn't begin to sum things up.

The respected construction trade magazine *Engineering News-Record* said the WTC "site concrete was largely pulverized into fine dust...." (Nadine M. Post and Debra K. Rubin, "Debris Mountain Starts to Shrink," enr.com [cached], 10/1/2001.) The dust in some places measured "several inches thick on the ground." (Joe Dunne, First Deputy Police Commissioner in Dennis Smith's Report from Ground Zero: The Story of the Rescue Efforts at the World Trade Center, Viking/Penguin, New York, 2002, p. 63.) Watch the WTC Tower 1 cloud form in this collapse video. *Although* "the 9-11 skeptics are apparently unable to offer any quantitative evidence that the observed pulverization of concrete in the collapse of the Twin Towers required pre-planted explosives," the contents of the WTC dust alone have provided compelling evidence. (quoting Dr. Frank R. Greening, "The Pulverization of Concrete in WTC 1 During the Collapse Events of 9-11," Nov. 2006.) See the chapter "Dust" below.

I should point out that the final official report on the collapse of the towers did not generate enough "quantitative evidence" to produce a working model demonstrating either WTC tower's total destruction (see NIST FAQ 10.). Moreover, critical arguments strongly refute what little modeling was done for the supposed collapse initiations. See the section below titled "Investigations." Some said WTC 1 suffered core failure; some said perimeter column failure. Since it didn't make sense that the core would fail, NIST chose perimeter.

Elements of the dust and other "conspiracy theorists" evidence refuting the official theories have always struggled against the easy, logical assumption that the hijacked jets – seen repeatedly on television colliding with the towers – made them fall (only in concert with the jet fuel-fed fire and dislodged fireproofing, officials said). The apparent structural failures seemed to initiate at the points of airplane impact, no less. Obvious, right?

Now more than ten years later, that confusion can be confronted with hindsight (not

<sup>&</sup>quot;...now you see the images and it all seems so cut-and-dried, it all seems so utterly clear. Plane hits, plane hits, building falls down, building falls down, but it wasn't that way at all on the day. We were immersed in confusion... almost suffocated by chaos."

<sup>-</sup> ABC News anchor on 9/11, Peter Jennings, when interviewed later by the Smithsonian Institution

20/20). Researching the events of that day has tended to dig up loads of garbage, as if one had dug too deep at the landfill where the WTC debris now rests. No doubt, the information has been sifted more patiently for evidence.

Virtually unidentifiable rubble (and bodies) enabled an amazingly fast cleanup of the site. The destruction of evidence and investigative failures at the World Trade Center ruins go hand in hand with the quantities and qualities of the physical evidence... often referred to as "debris." By looking at "Ground Zero" from a few different angles (after opening our eyes) it should be easy to see there was some destructive force in addition to gravity – that the World Trade Center was demolished as the world watched. If you disagree, read yet.

I invite you to watch "9/11 Debris: An Investigation of Ground Zero," parts one and two, to see and hear about Ground Zero. Part one makes this investigation valid with compiled reports, images and testimony showing the extreme destruction. Not only were expert witnesses and seasoned workers shocked by what they saw, they were struck by what they did not see. The many professionals' astonishment at the pulverization implied a question.

"When you look at where the towers used to stand, there is surprisingly so little rubble. Where did all the rubble go?" (ABC News anchor Peter Jennings to on-scene reporter George Stephanopoulos 9/12/2001 at 12:44 p.m. Watch TV archive clip [mirror].) So begins part two of my video "9/11 Debris." Mainstream media reports attempted to explain the missing debris. Was it the "120 dump trucks" that removed debris overnight, as Mayor Rudolph Giuliani mentioned on NBC at 9:52 a.m. on 9/12? (see TV archive clip) Was it the vast 70-foot deep basement that UK Channel 4 wrongly described as "hundreds of feet deep?" ("9/11: Ground Zero Underworld" 2007 – See "9/11 Debris" part 2 at 9:00.) Or was the answer hidden in the inches-deep dust – a blanket for a city of people unconscious of the reality of the nightmare?

The paragraphs below are largely composed of impersonal details, behind which a thousand stories of grief and hope seem to be forgotten. Ground Zero for the first weeks was a "city within a city," as a Nov. 4, 2001 CBS segment described it (video source: "What We Saw," DVD with book by CBS News, 2001 [mirror]). Donations poured into New York from all over the continent, as did volunteers. See "The Heart of Steel" (2006) for this side of the story. Watch now. The awesome compassion dedicated to searching the rubble for survivors and victims' remains quickly converted into efficient manpower for debris removal – that "indefatigably focused activity that began with the simple goal of rescue but evolved into a therapeutic tool for resolution and acceptance." (Jeannette Catsoulis, in a 2005 review of Lou Angeli's "Answering the Call: Ground Zero's Volunteers"). Even after hope of finding survivors faded, the shock and sadness were alleviated by the will to help, however that was possible.

The businesspeople who helped raze the WTC took advantage. What for many seemed like an exemplary act of American solidarity and cooperation in turn opened a way for the down side of patriotism – unquestioning following of leaders and popular opinion. (Sadly, our leaders *did not want an investigation* into the events of September 11<sup>th</sup>, for supposed fear of taking resources away from the new "War on Terror." V. P. Cheney. See the acclaimed documentary "9/11 Press for Truth," [mirror] specifically 14:00 – 26:00. More here.)

Meanwhile, the controversial <u>Patriot Act was pushed into law</u>, only after "the two primary holdouts" in the Senate received <u>US-made anthrax letters</u>. Letters to the media also stoked fear. (Colleen McGuire, "The 2001 Anthrax Deception: The Case for a Domestic Conspiracy – Book Summary Published Oct 28, 2014 by Graeme MacQueen," 911tap.org)

"<u>UNITED WE STAND</u>" became the national theme, as seen on ubiquitous bumper stickers with American flags – <u>millions of flags</u>. Never mind the fact that most Americans were so united in the act of <u>watching television</u>.



Photo by NYPD Aviation, Det. Greg Semendinger

### **Available Images**

Despite the restrictions on photography, a significant amount of photographic documentation did happen at Ground Zero. The ban on cameras wasn't announced publicly by Mayor Rudolph Giuliani until Tuesday September 25th. (Elisabetta Coletti, "City: No More Photographs of World Trade Center Site," Associated Press, Sept. 26, 2001.) View a photo of one of the posted signs on the site, date unknown, credit Kurt



Photo by Steve McCurry (source NIST FOIA 09-42 911datasets.org\Int'l Center for 9/11 Studies Release 16\42A0049 also here)

<u>Sonnenfeld</u> of the Federal Emergency Management Agency, FEMA. (<u>mirror</u>) "WARNING! NO cameras or video equipment permitted...." <u>Similar signs</u> were <u>photographed</u> at <u>Fresh Kills</u>.

"As we were preparing to leave the Ground Zero area and our team was walking toward the Manhattan Community College staging area, I was still taking pictures. A number showed how the dust was continuing to stick to windows even after the Friday rain. Then [we] turned a corner, and in front of us were members of the military. An officer came up to me and bluntly said, 'No pictures,' with the warning that I could be detained for twenty-four hours if I did not stop. I did not argue or ask questions; I just put the camera away."

- Paul J. Lioy, <u>Dust: The Inside Story of Its Role in the September 11<sup>th</sup> Aftermath</u>, Rowman & Littlefield Publishers, Inc., Lanham, MD, 2010, p. 32. [This encounter occurred on **Sept. 17** despite the fact Lioy and team had been invited onto the site.]

On October 3<sup>rd</sup> an anonymous photographer got the photos deleted from his camera's memory. Fortunately he was able to restore the photos using special software. See <a href="http://cf.parrhesia.com/wtc-photos.htm">http://cf.parrhesia.com/wtc-photos.htm</a> (cached, no photos). At first, New York City Police (NYPD) merely escorted him from the site and verbally warned him against taking more pictures, because it was "a crime scene." Nearby New York State Police performed the confiscation and deleting, only after being alerted by city officers, reportedly.

FEMA's Sonnenfeld confirmed the "crime scene" excuse (A24 TV 2011, dead link). He was keen to point out, though, that from day one the scene was trampled, its evidence thrown into dump trucks and hauled away (Vimeo, arg911truth at 4:30). There were no forensic photographers. Sonnenfeld explained that his work as official photographer was "sanitized," since he was told by superiors not to record bodies or body parts; firefighters or rescue workers crying or having a "personal moment;" personal effects of victims whose family members may have been watching TV [If any were intact and recognizable]; or closeups of the documents that were everywhere (A24 TV, 2011 seen 2012 – dead source link).

Although the site was a crime scene including the ruins of several government agencies (U.S. Customs, CIA, Secret Service, SEC, OEM), and despite the presence of the U.S. Military for what President Bush at 9:31 a.m. on 9/11 called a "national tragedy," Ground

Zero was not under the legal jurisdiction of the FBI or FEMA. The scene was technically a giant emergency rescue and recovery operation. This meant "FDNY had sole control of the site until the end of October, and after that date they constituted half of the Joint Task Force (The other half was the DDC [New York City Department of Design and Construction].)" (WTC <u>Living History Project website</u>, number 2.) "While the New York City Fire Department was 'in charge' of the WTC Disaster site, . . . the Incident Commander was, as a practical matter, the Mayor through the New York City Mayor's Emergency Management structure." (John Moran and Donald Elisburg, National Institute of Environmental Health Sciences guoted in Juan González's Fallout: The Environmental Consequences of the World Trade Center Collapse, The New Press, New York, 2002, pp. 118-19.) "In other words, by continuing to classify the Ground Zero operation as an emergency rescue effort, Mayor Giuliani kept complete operational control of the site in his hands. And because of that, the city was then able to ignore federal and state laws regulating proper health and safety procedures." (González, Ibid., p. 125.) [Interestingly, FBI Inspector in Charge of the 9/11 investigation, Pasquale J. D'Amuro, would become Chairman and CEO of Giuliani Security & Safety LLC (Giuliani Partners website). Another source says "Inspector in Place" at FBI HQ in D.C. See App. 3 to get some of Kevin Ryan's book delving more into the interpersonal relationships.]

If the City of New York was in charge, then who gave the military orders to prohibit photography before Mayor Giuliani's announcement on the 25<sup>th</sup>, as we saw with WTC dust investigator Paul Lioy on the 17th? In summary, it was official policy. Regardless, numerous people did manage to make photographs and videotapes during the first hours and days.

[Update 2015: <u>FEMA</u>'s Ground Zero images have been moved permanently with no redirect. (<u>mirror</u>, <u>mirror</u>, <u>mirror</u>) <u>Search keywords</u>. Find them on <u>archive.org</u> and <u>Wikipedia</u>.]

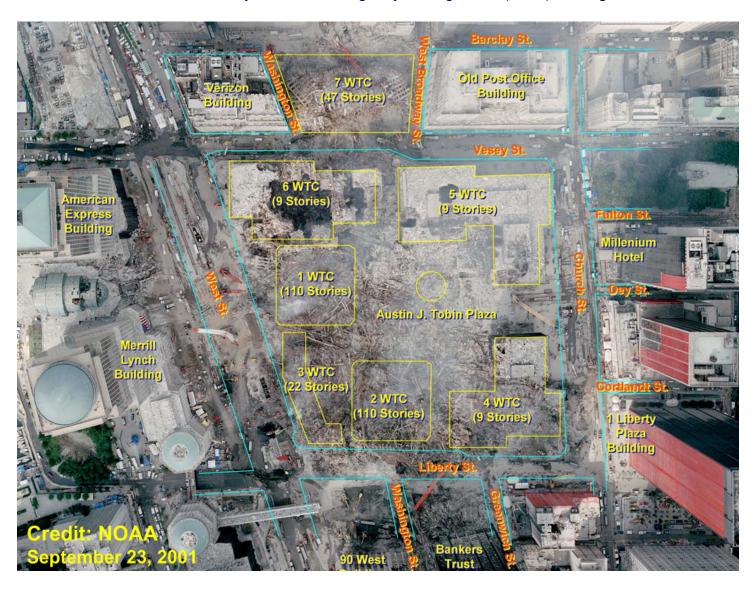


FEMA News Photo, Sept. 13, 2001 (not 9/12 like the FEMA website says at the bottom of the description)

Images captured by government employees included those of FEMA photographer <u>Andrea Booher</u> [NOTE: In a personal email, Andrea wrote, "I arrived on 9/12. I do believe this image {seen above} was shot on 9/13."] <u>Dana Trytten</u> and <u>SFC Thomas Roberts</u> were also on the scene 9/14. Arriving on Sept. 17 for FEMA was Michael Rieger. Meet him and Andrea in the History documentary "<u>The Day the Towers Fell</u>" (2002). Also for FEMA, <u>Bri Rodriguez</u>.

The <u>FEMA videographers</u> [slash photographers] were <u>Kurt Sonnenfeld</u> and <u>Jim Chestnutt</u>, whose <u>tapes</u> have been seen in <u>news bits</u> as "<u>FEMA video</u>." See <u>some FEMA images acquired by FOIA in 2010 [source, 911datasets.org]</u> and saved at <u>wtcdata.nist.gov</u> - <u>170-WTCI-91-FEMA.mp4</u>. See some of Kurt's <u>still photos on Facebook</u>. Watch <u>a 2009 video</u> to hear his allegations of government foreknowledge [<u>mirror</u>], or a similar <u>2011 video</u> [<u>mirror</u>].

Other "government" images included some <u>aerial video by the U.S. Coast Guard on 9/16</u> (AP archive X01895); one spectacular aerial <u>image from the U.S. National Oceanic and Atmospheric Administration or NOAA</u> (9,372 × 9,372 pixels), although taken on 9/23 (<u>also Wikipedia</u> [below]); <u>NOAA LIDAR</u> (more below) <u>working with the Army</u>; also some <u>shots credited to the New York City Office of Emergency Management</u> (OEM) starting 9/15. ...



The <u>9/11 TV archive</u> [recently updated {and mirrored}] is an indispensable resource, despite the fact that the news media were [mostly] kept off the site. Equally important are [some of] the <u>mainstream documentaries</u>, though they are often cut and pasted together with unidentified, mixed audio and video tracks. In late 2010, an abundance of raw television network and amateur video was acquired by the <u>International Center for 9/11 Studies</u> (thanks to <u>James Gourley</u> and Justin Keogh) through a Freedom of Information Act (FOIA) request of the National Institute of Standards and Technology (NIST), who amassed hundreds of hours of video for their 16-million dollar investigation ("<u>Feds To Begin Skyscraper Autopsy</u>," Associated Press, cbsnews.com, Aug. 21, 2002.). See my <u>NIST FOIA list</u> for details, or visit the incomplete <u>NIST data site</u> or the <u>NIST archive.org WTC repository</u>.

While watching the TV broadcasts from 9/11, you may have noticed that amateur and personal cameras provided some of the closest, early looks (listed below). ABC News anchor on 9/11, Peter Jennings stated this simple fact, pointing out the nature of the technological world we lived in, not so much the reality of blockades. For that, hear ABC reporter George Stephanopoulos mention the armed guards (in the early afternoon of 9/12), part of the military presence there for people's safety and security, mainly. See NBC News on Sept. 13 at 8:49 a.m. for a rare televised glimpse of the debris field, albeit surreptitiously garnered with a disposable camera and non-professional grade video camera. No smartphones, you know.

At my site <u>911conspiracy.tv</u> you'll find **all known camera perspectives** of the major events:1<sup>st</sup> hit (3 videos plus audio), the 2<sup>nd</sup> hit (61), the 1<sup>st</sup> collapse (145), the 2<sup>nd</sup> (189), and WTC 7 (25).

Among the videographers with the closest images were unnamed members of the Fire Department (FDNY), as archived by NIST [mirror] (YouTube ex. 1, ex. 2, ex. 3, ex. 4). Much praise for Fire Line Video's "WTC 09-11-01," for its video and radio traffic. (DVD found in the 2011 book by Harvey Eisner / Firehouse Magazine titled "WTC In Their Own Words.") See also fire photographer Lou Angeli (more on YouTube and the NIST website). See other important video from William Cirone (playlist here), Tim Cothren (ABC, 9/12, 23:59), Lenny Mulhern (9/11 – see more from NIST, or much more in 911datasets.org FOIA release 25, 42A0113 - G25D23), Etienne Sauret ("WTC: The First 24 Hours") [mirror at WTCI-329-I-6 [mirror 2]], Greg Siberman [mirror part 1, 2, 3], Matt Siegel ("Three Nights At Ground Zero"), Steve Spak ("WTC 9-11-01 Day Of Disaster" [also watch starting at 22:19]), Kevin Sutavee (ABC, 9/11, 16:10: "That's the part that's crazy. That's all that's left.")....

Photographers included the <u>FDNY</u> – both independent individuals and the <u>Photo Unit</u> (as seen in the International Center for 9/11 Studies NIST FOIA, 911datasets.org <u>release 33</u>, for example.) "The New York Fire Department's Phoenix Photography and Imagery Group, led by Captain Justin Werner, began taking aerial photographs on the first day – even when it meant holding cameras while hanging out of police helicopters." (Bruce Cahan and Matt Ball, "<u>GIS At Ground Zero: Spatial Technology Bolsters World Trade Center Response and Recovery</u>," *GEOWorld*, Jan. 2002, p. 27.) The Phoenix Unit photos may be listed above under NYPD [<u>see video</u>]. Most of the NYPD images are found on <u>archive.org here</u>.

Compare aerial images for these days: 9/13, 9/15, 9/17, 9/19, 9/22, 9/26, 9/30, and 10/3 (Source: 911datasets.org OEM-EMDC FOIA, credit EarthData). It's a shame black and white was used by EarthData (See the MCEER document, Section 3.1.3. "Problems" [Charles K. Huyck and Beverley J. Adams, "Engineering and Organizational Issues Related to The [WTC] Terrorist Attack Volume 3, Emergency Response in the Wake of the [WTC] Attack: The Remote Sensing Perspective," ImageCat, Inc., for The Multidisciplinary Center for Earthquake Engineering Research [MCEER], June, 2002]).



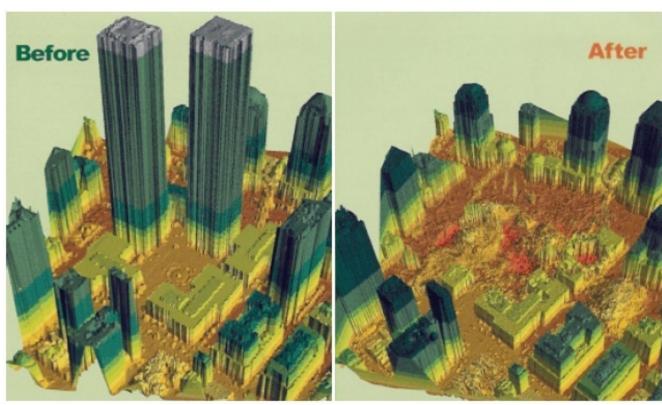
Photo by NYPD Aviation, Det. Dave Fitzpatrick or FDNY Phoenix Photography and Imagery Group camera operators on 9/11/2001. Source: 911datasets.org NIST FOIA release 8, folder 1 of 3, scanned, 2-22\_1.PDF image 1, cropped. At left stands the North Tower B stairway; at right the smoking ruins of WTC 2. The sphere sculpture blends into the background.

NYPD Aviation included <u>Det. Greg Semendinger</u> and others (9/11: <u>example 1</u>, <u>ex. 2</u>, <u>ex. 3</u>, <u>ex. 4</u>, <u>ex. 5</u>, <u>ex. 6</u> and <u>another</u> which clarified <u>a misleading photo used by NIST</u> from the same roll of film [Source: 911datasets.org release 8]. <u>NYPD Aviation 9/13</u>: <u>ex. 1</u>, <u>ex. 2</u>, <u>ex. 3</u>) Other NYPD photographers <u>were named</u> in the photo book <u>Above Hallowed Ground: A Photographic Record of September 11, 2001</u>, Christopher Sweet, Ed., Viking Studio, 2002, p. 6), introducing Det. Dave Fitzpatrick. See also this short video for some of the earliest looks.

See shots from George Miller of the NYC Transit Authority, Jim Green, Steve McCurry (on 9/11), Mike Davis (on 9/11), Max Lais (9/12), David Hammond (see video), Deborah Hardt, Louis Brendel, Eric Feferberg (among a few others named in the Int'l Center for 9/11 Studies 2010 NIST FOIA, specifically 911datasets.org release 29 [NYPD source is rel. 4 and 8]), and more famous photos from Tom Franklin ("Raising the Flag at Ground Zero"), Gary Marlon Suson (see also YouTube and the Ground Zero Museum), James Nachtwey, Aris Economopoulos, Doug Kanter, Michael J. Leddy, and Frank Silecchia. New York City cop and photographer John Botte was granted access by commissioner (now convicted felon) Bernard Kerik. Botte's monochrome photos (example) were published in Aftermath: Unseen 9/11 Photos by a New York City Cop (2006)... not to be confused with Aftermath: WTC Archive by Joel Meyerowitz. Another photographer: Nicola McClean, creator of Ground Zero 360°.



There were many photos of Ground Zero, it would seem, but only certain images were put to use. Aerial photography (see also earthdata.com) wasn't able to see through the persistent smoke until Sept. 15, with LIDAR – Light Detection and Ranging. See a video clip from "World Trade Center: Rise and Fall of an American Icon" [mirror] at 47:40 (History, 2002) or read some at <a href="http://www.loc.gov/loc/lcib/0209/maps.html">http://www.loc.gov/loc/lcib/0209/maps.html</a>. With LIDAR, a laser fired from a small airplane was able to map topography accurate to 6 inches in height. See <a href="https://www.loc.gov/loc/lcib/0209/maps.html">high res photograph from 9/15</a> to compare. (911datasets.org <a href="https://www.loc.gov/loc/lcib/0209/maps.html">OEM-EMDC FOIA</a>) That <a href="https://www.loc.gov/loc/lcib/0209/maps.html">high res photograph from 9/15</a> to compare. (911datasets.org <a href="https://www.loc.gov/loc/lcib/0209/maps.html">OEM-EMDC FOIA</a>) That <a href="https://www.loc.gov/loc/lcib/0209/maps.html">high res photograph from 9/15</a> to compare. (911datasets.org <a href="https://www.loc.gov/loc/lcib/0209/maps.html">OEM-EMDC FOIA</a>) That <a href="https://www.loc.gov/loc/lcib/0209/maps.html">first</a> LIDAR image (source, credit EarthData) wasn't seen by authorities until Sept. 17. This delay for access to the images at the Emergency Mapping and Data Center (EMDC) thereafter was next-day/morning (Charles K. Huyck and Beverley J. Adams [MCEER], op cit., p. 20).



LIDAR, Light Detection and Ranging, After date not given.. Source: GeoNews, Volume 15, number 3, February 2002, p. 3.

Depending on equipment, altitude, and speed of the aircraft, the resolution [or distance between points measured by the laser] varied between 6 and 15 feet for EarthData, and a bit more for NOAA (Ibid., p. 18). Flyovers were done regularly (daily in September, with only a few exceptions – see the imaging timeline [together with more details in the MCEER document]). More on NOAA's involvement here.

The main purpose for this and other high tech imaging was to create maps to help search & rescue experts, firefighters, police, ironworkers and others climbing in the pile/pit. With the help of Dr. Sean Ahearn, director of the Center for the Analysis and Research of Spatial Information (CARSI), it was also possible to chart areas of possible collapse (Maddalena Romano, "Charting Ground Zero exhibit opens in Soho," GeoNews, Volume 15, number 3, February 2002 [more on the exhibit here]). Finally, the images provided more general information, like changes in the volume of debris. (More on that shortly.)

The Sunday Sept. 23 New York Times ran an article titled "From 5,000 Feet Up, Mapping Terrain for Ground Zero Workers," which featured a large LIDAR image taken Sept. 19. Compare to another taken Sept. 23 (source, credit NOAA/U.S. Army JPSD) and another, high resolution LIDAR image dated 9/17 (credit EarthData, source: 911datasets.org OEM-EMDC FOIA). Much more on mapping Ground Zero can be found at The George Washington University website. The U.S. Army Corps of Engineers (USACE) attested to the importance of LIDAR. "GIS [Geographic Information Systems] maps are created from aerial photos taken daily at the World Trade Center site. A light detection and ranging system takes photos that scan the area to pinpoint exact elevations." (Justine Barati, "Corps Assists FEMA and New York City with Mapping Capabilities," Yankee Engineer World Trade Center Edition, U.S. Army Corps of Engineers, New England District.

Dec., 2001. p. 9.) More on GIS here.

Additionally, aerial thermal imagery helped keep rescue workers safe from hot or even molten metal and underground fire (see GeoNews, Vol. 15, Number 1, Oct. 2001). Images and data from the Airborne Visible/Infrared Imaging Spectrometer (AVIRIS) recorded Sept. 16 and later can be found at the USGS website (see also this <u>USGS page</u>). Underground fires burned for more than 3 months - until Dec. 19 according to <u>Scientific American</u> and "Metal of Honor: The Ironworkers of 9/11" (Rachel Maguire, Naja Productions, 2006 [mirror]). That was despite the USGS data suggesting hotspots were nearly eliminated by Sept. 23 (USGS) PDF). AVIRIS provided the most detailed thermal data (including temperature), but other instruments were also used. For instance, see an image from the "tripod mounted Raytheon Nightsight Palm IR 250 thermal camera, carried aboard a Navajo Chieftain aircraft." (Charles K. Huyck and Beverley J. Adams, Ibid., p. 21.) These images could be <u>combined</u> History, 2002 (47:20 - composite image) Date unknown.



"World Trade Center: Rise and Fall of an American Icon,"

Sadly, "[a]Ithough AVIRIS temperature readings were released to the FDNY, this key information was not received by any of the mapping centers." (Ibid., p. 39. See image, particularly the caption.) Note there was a mapping center for Urban Search and Rescue at the Jacob K. Javits Convention Center in midtown, which focused on Ground Zero alone. The EMDC at Pier 92 [after being moved from the NY Police Academy Sept. 14, after 2 days] worked on the entire area. Third, there was FEMA working at Pier 90. (Ibid., p. 6.)

with 3-D LIDAR (Ibid., p. 32.), but not in the detail provided by AVIRIS.

AVIRIS also had the ability to measure and help track elements of airborne pollutants, primarily the carcinogen asbestos. See the PDF document "USGS Environmental Studies of the World Trade Center Area, New York City, after September 11, 2001." Unfortunately, there were "considerable time delays" in getting resulting info. "These compositional results were not released until the 27th September, by which time the risk posed to response crews by

airborne contaminants had abated." (Charles K. Huyck and Beverley J. Adams, op cit., p. 26.) This important issue is discussed below in the chapter "Dust."

Similar high tech gear was employed by the U.S. Army Communications Electronics Command (CECOM) Research, Development and Engineering Center (RDEC): "the Night Vision and Electronic Sensors Directorate's (NVESD) Night Vision Imaging Spectrometer (NVIS) sensor suite, which includes a high resolution imager." Aerial shots were able to get thermal readings and more. Like AVIRIS, NVIS could identify elements. "The NYC health dept. was looking for ways to identify and create maps of materials in the entire debris field. . . Unfortunately, **the complete pulverization of materials in the rubble** made it unfeasible to attempt to unmix and identify specific materials using a spectral signature library of construction materials." ("Airborne remote spectrometry support to rescue personnel at 'Ground Zero' after the World Trade Center attack on September 11, 2001," Chris Simi, Anthony Hill, Henry Kling, US Army CECOM RDEC Night Vision and Electronic Sensors Directorate, et. al. [emphasis added])

Let's move on to the usefulness of high tech imaging as it relates to the original purposes of this paper – measuring the debris mass and volume. The number of tons of debris removed was often mentioned in reports about the Ground Zero recovery – so often that the rate of removal could be calculated.

"The volume of debris was calculated through GIS analysis. This helped the city determine how much debris was removed. Images were compared daily to determine changes in the site." (Vince Elias, et. al., "New York District in the Red Zone" The New York District Times, U.S. Army Corps of Engineers, NY District. Vol. 26, No. 5, Fall, 2001. p. 8.) Again, G.I.S. stands for Geographic Information Systems (see for example "Mapping the Hazards to Keep Rescuers Safe," New York Times, Oct. 4, 2001). The "systems" constituted software, hardware, and people. Visit New York City's makeshift OEM headquarters (that replaced the WTC Building 7's 23<sup>rd</sup> floor "bunker," destroyed on 9/11) in a Sept. 19 NBC News report (911datasets.org release 28, folder 42A0295 - G27D25). See "Tonnage."

Authorities at FEMA (and the NYC OEM, who on 9/11 was already working at Pier 92 on the Hudson River in preparation for a bioterrorism exercise planned for 9/12/2001) wanted to know how long the recovery operation would take, and about how much it would cost. Since the NYC OEM headquarters at WTC Building 7 had "collapsed" 9/11 afternoon (see videos), Pier 92 somewhat conveniently became the new headquarters. A FEMA Disaster Field Office was established at the adjacent Pier 90 (www.fema.gov/...). [Note Pier 91 is not in between, but is on the East River.] Debris management experts from the U.S. Army Corps of Engineers arrived (Allen Morse and others) and coordinated with both FEMA and city officials. (Wayne Stroupe, U.S. Army Corps of Engineers, New England District, "Corps of Engineers Tackle Debris Management Mission at World Trade Center," Yankee Engineer, World Trade Center Edition, Dec. 2001, p. 7.)

Unfortunately their process of translating LIDAR data into weight/mass measurement has not been fully explained. Some mathematical formula not unlike cargo freight being weighed dimensionally? The resulting numbers have never been independently verified (or clarified for that matter), and so have become the subject of much speculation. Leading geographer Sean Ahearn of <u>CARSI</u> has not provided input on this detail; nor has FEMA or the U.S. Army Corps of Engineers. "On Sept. 23rd, 12 debris specialists started debris monitoring. USACE completed its part of the Debris Operations Plan on Sept. 23rd and turned the operations over to FEMA at the DFO [Disaster Field Office at Pier 90]. The official joint estimate of the total debris amount was released at 1.2 million tons." ("Role of USACE at

the WTC Response Operations" [gwu.edu]) But what did that estimate include?

Later in this book the physical measuring devices such as scales, barges, and dump trucks will be scrutinized for input, but only after gaining an understanding of the behavior of those driving the drivers.

## **Cheap and Fast**

"Early estimates were that it would take up to 2 years to clean up Ground Zero. But in fact the process went much more quickly, and was significantly under budget."

- PBS "Newshour" May 30, 2002 (source)

#### **MIRACLE**

The New York Times said "those heading the cleanup and those removing the rubble at ground zero are trumpeting nothing short of a construction miracle.... The cleanup, it turns out, will take no more than nine months and cost no more than \$750 million." That was all, after "the authorities. . . [had] estimated the cleanup would take a year and cost \$1 billion to \$2.5 billion, and they gave contractors blank checks to get the job done." (Charlie LeDuff and Steven Greenhouse, "Far From Business as Usual: A Quick Job at Ground Zero," renamed "Ground Zero Cleanup Defies How Jobs Are Usually Done," New York Times, Jan. 21, 2002.) One high-end estimate in Oct. 2001 had imagined it would cost "\$5 billion to remove the debris." (Jennifer Steinhauer, "City's Budget Is Battered In the Aftermath of Attack," New York Times, Oct. 3, 2001.) This astronomical figure is quoted as an official estimate in the Wikipedia article "Rescue and recovery effort after the September 11 attacks." One time.com page said, "Early estimates of the cleanup cost were that it would take a year and \$7 billion." These higher estimates may have included more than the 16-17 acre site, such as dust decontamination of local buildings or subsequent construction. Another quote came from the Dept. of Labor in their 2003 documentary "Up from Zero." At 6:50 into the video: "Original estimates were that the cleanup of the World Trade Center could take 18 months, cost a billion and a half dollars, and claim the lives of more than 100 construction workers. Instead, it took 9 months, cost half of what was estimated, and no one was killed...."

Some additional financial aid in years to come has not been included. For example: "The South Ferry [subway] station, built with \$545 million in post-9/11 recovery funds, opened in 2009 as a state-of-the-art marvel. It could handle 24 trains an hour on two parallel tracks – a vast improvement over the old station." This still adds up to way less than \$5 - 7 billion. (http://www.mta.info/nyct/service/RestoringSouthFerryStation.htm)

The low cost was remarkable and commendable, a "miracle" explained somewhat by "a sense of pride and Americanism, and setting an example for the rest of the country," since it was the most high-profile construction/demolition job at the time. (LeDuff and Greenhouse, op cit., p. 2) Patriotism yielded work.

More influentially, on Oct. 4 Mayor Giuliani tasked an investigative team to provide "vigorous oversight" to minimize the fraud for which the industry was notorious (LeDuff and Greenhouse/New York Times and Stanley Lupkin and Edgar Lewandowski, "Independent Private Sector Inspectors General: Privately Funded Overseers of the Public Integrity," NY Litigator Journal, Summer 2005, Vol. 10, No. 1, p. 10.). Specifically, "NYC Department of Investigations (DOI) hired outside auditors to track labor and equipment costs and hauling costs for each of the four CM [Construction Managers]. In addition DDC [Dept. of Design and

Construction, NYC] hired a fifth auditor, KPMG, to track all CM costs in preparation for billing FEMA for all costs." (Roger K. Fulmer, U.S. Army Corps of Engineers, Sacramento District, "New York City World Trade Center Disaster Deployment," The Prospector, Jan. 2002.) The DOI auditors were four Independent Private Sector Inspectors General, or IPSIGs, for "background checks of all contractors and subcontractors, the tracking of personnel and equipment, surveillance and charting of all debris pick-ups and drop-offs, forensic audits of all billing requisitions submitted to New York City, surveilling worker sign-ins and sign-outs, manning a 24-hour confidential hot line to receive complaints, tips and investigative leads, etc." (Press Release #042-2001, "Department of Investigation, DOI Announces Compliance Monitors & 'Integrity Hot Line' To Help Assure Construction Integrity and WTC Recovery Site," [Oct. 4, 2001], quoted in the NY Litigator Journal, op cit.)

"Mr. Morse, the Army Corps of Engineers official, said the contracts contained provisions that were generally discouraged under FEMA guidelines.

"The four contracts, he said, pay for debris removal based on 'time and material.' In other words, the haulers are paid by the hour or day, which means they have little financial incentive to work quickly. Past FEMA audits have revealed any number of abuses with such contracts. One favored ruse is to use under-size trucks, forcing more trips to the landfill.

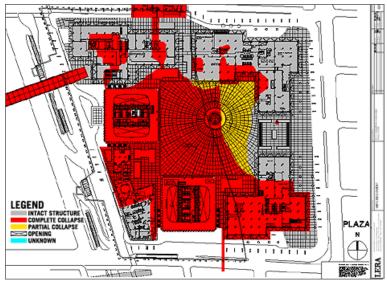
- David Barstow, "Officials Are on the Lookout for Relief Effort's Dark Side," New York Times, Sept. 22, 2001, p. B11.

Author William Langewiesche, one of few journalists allowed full access to the site, noted that "though some of the truckers cheated, and certain contractors grossly inflated their costs, on the whole, workers never got the idea to slow down and take advantage of the federal largesse." (William Langewiesche, <u>American Ground: Unbuilding the World Trade Center</u>, North Point Press, New York, 2002, p. 181.) So what was the incentive to work fast? Aside from taking one's mind off the horror? It was, after all, a 24/7 nonstop work site.

Last but not least, LeDuff and Greenhouse explained, there was the "good luck" that more damage wasn't done – especially to the 3-foot thick, 70-foot deep reinforced concrete retaining wall – aka the "bathtub" – that kept the Hudson River from flooding the basement, as well as the PATH (Port Authority Trans Hudson railway) tubes, and the subway system. An early report prepared by Controlled Demolition, Inc. (not available in full) highlighted this fact. (Nadine M. Post, "Preliminary Report Says Maintaining Integrity of World Trade Center's Slurry Wall Foundation Is Paramount," Engineering News-Record, Sept. 25, 2001.) More than 45 wells were placed along adjacent streets, using pumps to alleviate groundwater pressure. (http://www.avantigrout.com/files/literature/Working\_at\_Ground\_Zero.pdf) Not only was direct damage to the wall a worry, but also (more so) was leaving it unsupported. Watch the 2002 PBS documentary "America Rebuilds: A Year At Ground Zero" (at 4:19 in clip), where the matter was addressed using both animation and video (mirror). In a news article, engineering manager for the Port Authority of New York & New Jersey, Peter Rinaldi talked about this. "The only thing holding the slurry wall up was the collapsing material itself." (Caren Halbfinger, "WTC Slurry Wall a Symbol of Survival," The Journal News, Sept. 5, 2006.)

In some places, especially on the north and east sides, intact floors did remain to provide support structure. Seen above thanks to Leslie E. Robertson Associates (LERA, the main engineering firm who built the WTC) is one of few online maps illustrating the status of explored areas below the surface. Another map image comes from an Engineering News Record article from Oct. 29, 2001, updated from a similar one Oct. 8 that opened by saying, "Visual surveys indicate roughly 50% of the seven-level basement structure of the World

Trade Center is now rubble as a result of the impact of the collapse of the twin 110-story towers." Another series of images representing the underground came from <u>The New York Times website</u>, which unlike the LERA drawings places some damage on B6. As you can see, it is not accurate to suggest the "towers compacted into a rubble pile that filled a six-story basement...." (Dennis Cauchon and Martha T. Moore, "<u>Miracles Emerge from Debris</u>," usatoday.com, Sept. 6, 2002.)



Source shows all 7 floors & Plaza, credit Leslie E. Robertson Associates

at 3:12] and George J. Tamaro, "World Trade Center 'Bathtub': From Genesis to Armageddon," *The Bridge*, Spring 2002, Vol. 32, No. 1, p. 17 (html version).

Working with LERA as seen above, Mueser Rutledge Consulting Engineers advised New York City's Department of Design and Construction on the basement conditions and compiled the survey of structural damage. (Dennis Overbye, "<u>Under the Towers, Ruin and Resilience</u>," New York Times, Oct. 9, 2001.) "Infrastructure data were assembled, sometimes in the form of nonregistered digital computer-aided design drawings. The data were integrated with the building plans to

there except for vacant space.' Hahn said [Daniel Hahn, an engineer at Mueser Rutledge Consulting Engineers, which surveyed the basements1. 'There is very little debris because the building didn't collapse through the basements." (Greg Gittrich, "Seven-story Underground Space Unlikely To Hold Bodies," NYDailyNews.com, Jan. 23, 2002.) It was inevitable that one of the giant excavating machines would fall into a void. This happened at least twice. ("America Rebuilds," PBS, 2002. [source: clip

"There really isn't much down

are intact, the engineers say.

The engineers' conclusions were reinforced yesterday by Mayor Rudolph W. Giuliani, who, in referring to the retaining wall, said at a news conference that "there is no reason to believe that that's been cracked."

"We've gone over that in great detail, and there does not appear to be any concern at all," Mr. Giuliani said. "If there is any issue with that when the extrication is done, it will be done very, very carefully so there is no damage done."

The mayor sought to dispel fears about the retaining wall among residents of Battery Park City, some of whom moved back into Battery Park City North on Thursday. He said other buildings in the complex would reopen over the next week.

"I'm trying to go at this slowly and calmly," he said.

In addition to the foundations of four buildings — the two main towers, a Marriott hotel and 6 World Trade Center — the basement also housed seven levels of shopping, parking and a PATH train station.

Meanwhile, construction has be-

Engineers find much of the seven-story basement is intact.

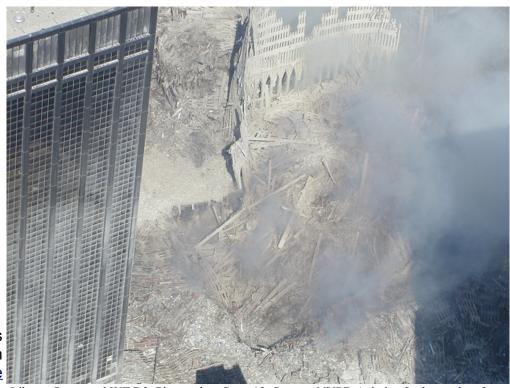
Dennis Overbye and Thomas J. Lueck, "Officials Report No Threat of Flooding from the Hudson," *New York Times*, Sept. 22, 2001.

provide a 3-D view underground; before and after views of the site helped determine existing conditions." (Bruce Cahan and Matt Ball, <u>op cit.</u>, p. 28.) Current efforts to procure these detailed maps by Freedom of Information Act/Law (FOIA/FOIL) request have failed to get this data. (See <u>911datasets.org</u> materials.)

The news clipping here comes from Dennis Overbye and Thomas J. Lueck, "Officials Report No Threat of Flooding from the Hudson," New York Times, Sept. 22, 2001. Another shot from the actual paper, Sept. 21, found an image with the caption: "Subterranean

passageways somehow survived the collapse of the twin towers." The C.J. Chivers article title is somewhat visible: "Looting Is Reported in Center's Tomblike Mall." [See the mall map to reference the list of stores.]

The southern side of the slurry wall was dangerously unsupported, and creeping inward. Compare the above photo by NYPD aviation 9/13 and this ENR 10/29 diagram (Source: *Engineering* News-Record) to better understand the damage. The guick solution for this weak spot was simply to dump earth in front of it, or "backfill." The long-term solution was priority number one on the site (to paraphrase "America Rebuilds").



Liberty Street and WTC 2. Photo taken Sept. 13. Source: NYPD Aviation [enlarge photo]

"'[W]e very quickly came up with this idea of tying the wall back. The circumstances you had to work with were that you couldn't even find the wall initially, there was burning debris all over it.'

"But before the work could begin, as engineers were assembling equipment and materials, the southern portion of the wall, near Liberty Street, began to move. A member of the construction crew brought it to [engineering manager for the Port Authority of New York & New Jersey Peter] Rinaldi's attention.

"'A crack opened up on the street overnight,' Rinaldi recalled. 'I looked at it and recognized the wall was failing.'

"So the Port Authority brought in 50,000 cubic yards of sand to prop the wall in place. Shortly afterward, work began to secure the wall by drilling pipes into the bedrock, anchoring steel cables through those pipes to the wall and fastening them at a 45-degree angle.

"'We put in almost 1,000 of these,' Rinaldi said. They finished the job in May 2002." (Caren Halbfinger, op cit.) [FYI, the 1960's bathtub construction used a similar technique, if not the same. [Tamaro, op cit.]

Not only was the <u>bathtub wall</u> spared significant damage. Structures surrounding the WTC complex survived, despite initial



Tiebacks. Source: "Up From Zero" (Dept. of Labor, 2003)

fears that One Liberty Plaza might collapse (See for example ABC News Sept. 12 at 7:24 p.m.). The peripheral buildings were covered by FEMA in their Chapter 7. Economically speaking from the point of view of one having to pay for cleanup, it was fortunate that the towers were completely destroyed, and destroyed in the manner they were: falling into themselves and peeling downward in pieces, as opposed to large toppling sections (like WTC 2 threatened in the first moments of collapse. With the exceptions of the small church below the South Tower across Liberty Street (St. Nicholas Greek Orthodox Church), only those buildings carrying the WTC prefix – all 7 – were destroyed. [Deutsche Bank Building was eventually dismantled due to a combination of dust contamination and damage.]

Hear leading Ground Zero engineer Richard Tomasetti describe periphery damage <a href="here in "America Rebuilds." Most falling debris and steel was confined to about a block's radius. See collected images at <a href="here">sharpprintinginc.com</a>. As Ground Zero ironworker/foreman

Warren Allen observed in "Metal of Honor" (op cit., see clip [mirror]) "You couldn't have paid a demolition company to take them down straighter."

"I expected, especially with the South Tower, Tower 2, that the upper part of the tower would have tumbled over like it started to do.... All my years of going to building collapses and seeing buildings with Rescue 3 at the Collapse Unit, and studying building collapses, this is just phenomenal, both of them. I could see if one came down, but both of them coming down is mind boggling." - Firefighter Ray Phillips in WTC In Their Own Words, Harvey Eisner, Ed., Cygnus Business Media, 2011, p. 122.

Finally there was the luck that no considerable effort or expense was required for demolishing remaining structure where the towers were concerned. Videos of the collapses that show the building cores crumble down afterward are especially interesting (WTC 2 (mirror) - WTC 1). WTC 5 and 6 had to be picked apart or wrecked by giant machines (and finally pulled down using cables in 6's case. See "America Rebuilds" here). Of the Twin



Unknown. See Thomas Nilsson from below.

Towers, only those jagged, <u>iconic exterior shells</u> of trident columns were left standing around the 7 stories of partial <u>core</u> (WTC 1, at 12 feet per story). See the <u>9/17 LIDAR image with elevation legend</u>, which reveals the large percentage of area actually below street level. The incredible pulverization of building contents has been the subject of numerous intelligent witnesses' surprised comments, as collected in <u>my video</u>. (As an <u>appendix</u>, I've included the timed text closed captions *with added source notes*.)

The complete devastation and fast cleanup that it afforded were **not** miracles, or luck.

### THE BIG FOUR

The <u>PBS website for the "America Rebuilds" program</u> provided the "quick facts" that the initial estimate for "clean-up" was \$2 billion and the final actual cost was \$650 million. Who got the money? (Please see <u>Appendix 3</u> for Kevin Ryan's investigation of the matter.)

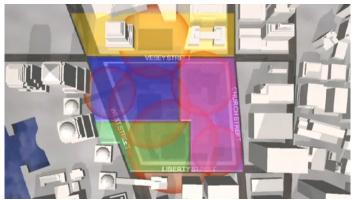
According to William Langewiesche, on the day of 9/11 the Department of Design and

Construction's Michael Burton called three big names in the construction industry with which he was familiar: AMEC, Bovis Lend Lease, and Turner Construction. Burton's boss Kenneth Holden brought <u>Tully Construction</u> in also. (Langewiesche, Ibid., p. 89) On 9/12 it was reported by construction industry news that three companies had been hired, not including Turner for whatever reason. (David S. Chartock, "<u>Industry Rallies To Cleanup WTC Aftermath</u>," *New York Construction News*, Sept. 12, 2001.) The next day Turner was included, with AMEC and Bovis grouped together. ("<u>Industry Mobilization Continues; DDC Selects 3 Cleanup Teams</u>," *New York Construction News*, Sept. 13, 2001.)

Details were worked out while FDNY took the lead in rescue and recovery, using mostly 5-gallon "bucket brigades," working aside FBI, NYPD, FEMA, etc., delicately by hand with hope of finding survivors. On Sept. 14, *New York Construction News* published an article titled, "Day 4: A Unified Industry Digs In So Others Can Dig Out." Machines then began to take over. "The rescue operation has changed course this evening. They have abandoned an ocean of 5-gallon buckets in favor of heavier equipment." (Matt Siegel, "Three Nights at Ground Zero" at 15:30, during the film's section titled "Day Five." Day one was 9/11.)

Four \$250 million contracts were awarded to the construction companies involved (David Barstow, op cit., New York Times, Sept. 22, 2001.). Ground Zero was divided into quadrants (source: 9/11 Memorial Timeline), each with its own managing firm. Subcontractors were hired. Payment was only rendered for spent time and materials.

A nydailynews.com article (cached) only counted \$458 million "total quadrant contracts," but their primary investigative purpose was connecting THE MOB to about \$77,428,250 of that (Russ Buettner, Heidi Evans, Robert Gearty, Brian Kates, Greg B. Smith and Richard T. Pienciak, "Exposed: Map of Ground Zero Spoils. Where the Money Went To Clear Trade Center Debris.," Dec. 5, 2005). Yes, that means organized crime was involved. **Of course!** (See also the Sept. 28, 2001 UK *Telegraph* article "250 Tons of Scrap Stolen From Ruins," by David Sapsted.) In Report



**course!** (See also the Sept. 28, 2001 UK

Quadrants. Source: "Up From Zero" (Dept. of Labor, 2003) A

Telegraph article "250 Tons of Scrap Stolen detailed drawing comes from the 9/11 Memorial Timeline

from Ground Zero, a firefighter talked about this. "'The fact,' he [said], 'that this dust and steel is being taken by the Mafia, somehow, it makes it so New York, you know...." (Dennis Smith, op cit., p. 268.) This news came before the auditors were employed, and despite author William Langewiesche's assertion that "[t]he mob shied away from the job." (William Langewiesche, op cit., p. 181.) How would he have known? [Note: I quote this text often, despite the fact that the DDC's Kenneth Holden granted Langewiesche (pronounced "Lang-aveesha") the virtually unrestricted access – perhaps a source of bias {source}. To find important criticism of American Ground, visit the WTC Living History Project.]

<sup>&</sup>quot;Agreements between the city and the Big Four, as well as with subcontractors, were handled on a payas-you-go basis. Without competitive bidding, the four managers picked whomever they wanted to get the job done.

<sup>&</sup>quot;Of the \$458 million in federal 9/11 aid spent on debris removal, AMEC got \$65.8 million, Bovis \$277.2 million, Tully \$76 million and Turner \$39 million. [. . .]

<sup>&</sup>quot;When London-based AMEC Construction showed up at Ground Zero as one of the Big Four

hired to run the cleanup job, the firm's U.S. subsidiary already was ensnared in government corruption probes in Missouri and California. AMEC still got the 9/11 job."

- Russ Buettner, Heidi Evans, Robert Gearty, Brian Kates, Greg B. Smith, and Richard T. Pienciak, "Exposed: Map of Ground Zero Spoils. Where the Money Went to Clear Trade Center Debris," nydailynews.com, Dec. 5, 2005.

Note that AMEC also worked at the Pentagon disaster site. See "Contractor Guilty of Pentagon Fraud," Torsten Ove, Pittsburgh Post-Gazette, Feb. 21, 2008: "... a supervisor for AMEC Construction Management, the company in charge of the \$199 million Pentagon rebuilding contract, pleaded guilty in 2006." Here's a quick description of the troubled corporation working on the New York site: "AMEC in the northwest corner of the foundation hole, often bumbling, arousing the ire of the DDC, and falling behind...." (Langewiesche, op cit., p. 68.) Mention of their Pentagon rebuilding (and renovation pre-9/11 of the exact Flight 77 impact point) comes from Kevin Robert Ryan, Another Nineteen: Investigating Legitimate 9/11 Suspects, Microbloom, 2013, especially Chapter 10. Read in part on my website.

On the next page of <u>American Ground</u>, Langewiesche describes the "forces" at work as "roughly 3,000 strong." There were so many people working on the site, it often came as a surprise to industry professionals that there were no fatalities during the entire 9 months (<a href="http://www.osha.gov/as/opa/911/">http://www.osha.gov/as/opa/911/</a>).

"The initial estimates by DDC [New York City Department of Design and Construction] and the federal government were that the recovery efforts, debris removal and site stabilization would take 2 years and cost over \$1 billion. The Contractors and others finished the work in 265 continuous days, 24 hours per day. The Labor force peaked at 2300 (including uniform services), and was stable at 1700 for much of the period, which included about 250 Bovis personnel. BLL was particularly proud that we had no fatalities and only 36 reportable accidents with over 3.2 million man-hours worked."

- Michael Feigin, Executive Vice President, Chief Administrative Officer, Bovis Lend Lease Holdings, Inc., Subcommittee on Superfund and Waste Management Impact of Certain Government Contractor Liability Proposals on Environmental Laws, Nov. 8, 2005.

The 3.2 million man-hours is total, not Bovis only (although Bovis did have the most). See also Pete Sigmund, "<u>After Nine Months, WTC Site Cleanup Concludes</u>," Construction Equipment Guide, Northeast Edition, June 17, 2002.

Another of the "big four" was Peter Tully of Tully Construction, the contractor responsible for the eastern quadrant of the pile – the south tower, WTC 4 and 5, and the 425,000 square foot underground mall. Tully granted an interview that proved most interesting [however *leading* the journalist's question may have been]:

"Think of the thousands of file cabinets, computers, and telephones in those towers - I never saw one - everything was pulverized,' he said. 'Everything that was above grade - above the 6th and 7th floor - disintegrated...it was like an explosion.' Tully Construction specializes in concrete. I asked Mr. Tully if he had ever seen concrete pulverized as it was at the WTC.

'No - never,' he said.

Tully said that there were hot spots where he observed 'literally molten steel.' Asked about what could have caused such intense heat, Tully said, 'Think about the jet fuel.'" (emphasis added)
- Christopher Bollyn, "Foreign Firms Destroyed Crucial Evidence," August 14, 2002.

For more on those involved, see <u>Appendix 3</u>, Excerpt from Kevin Robert Ryan, <u>Another Nineteen: Investigating Legitimate 9/11 Suspects</u>, Microbloom, 2013, pp. 251-259.



WTC Building 7, left: Michael Chan from 911datasets.org release 36, 42A0520 - G37D7; right: <u>Tim Tobiason</u> 9/12 (est.) See also release 10/NYC-FDNY/<u>WTCI-28-NYC Pt2of4.wmv</u> (YouTube) and <u>Lou Angeli's tapes</u>

### **BUILDING 7**

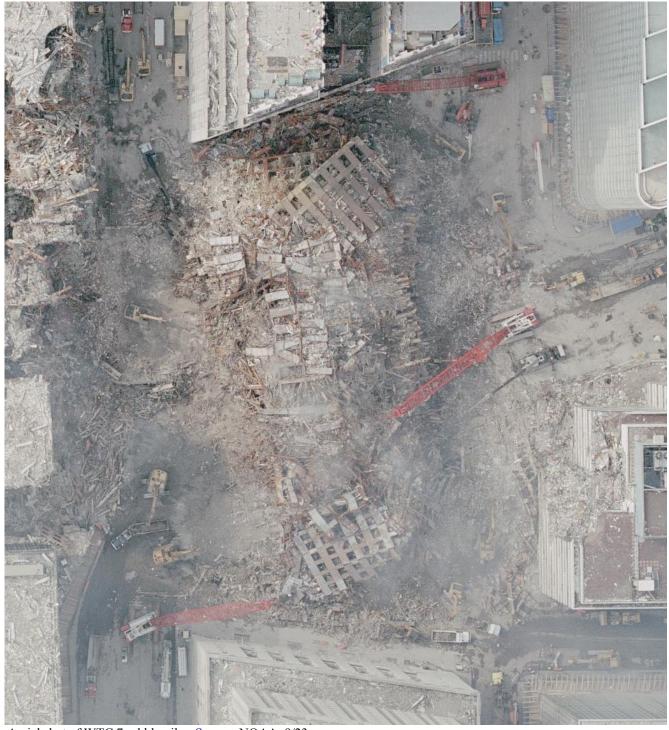
Contractors working for Turner/Plaza Construction made quick, "almost tidy" work of the northern quadrant, which included Building 7. (Langewiesche, op cit., p. 68.) By October 20 the pile had been "just about completely cleared away." (Dennis Smith, op cit., p. 314.) By early November Turner was done at the site. ("Turner Finishes WTC Work," New York Construction News, Oct. 25, 2001.) To see Turner's full report summary, click here (p. 134).

If you haven't seen it, watch the "collapse" from <u>all angles</u> now. <u>The debate</u> rages on. Smart people are on both sides, but I agree with the conspiracy theorists... and <u>Firefighters</u> <u>for 9/11 Truth</u>... and the <u>University of Alaska Fairbanks study</u>.

Within 5 days of the attack, workers had "begun using heavy equipment to haul away the wreckage of Building number 7, regardless of the fact that it's still burning. At the Canteen we hear **some of the truck drivers complaining that some of these girders are so hot they cause the beds of the dumptrucks to crack and split open.**" (Matt Siegel, "Three Nights at Ground Zero" at 13:15, during the film's section titled "Day Five.") Why not wait, since there was nobody trapped or killed there? Well for one thing, the value of the trucks could be reimbursed with FEMA's federal aid! Seriously: What was the rush?

World Trade Center 7 had been evacuated before the first tower collapsed (WTC 2). The <u>9/11 Commission Report</u> says the time was "approximately 9:30" am. when even the Office of Emergency Management (OEM) personnel left their high-tech "bunker." (<u>The 9/11 Commission Report: Final Report of the National Commission on Terrorist Attacks Upon the United States</u>, 2004, p. 305.) Exceptions to the full evacuation were 1. City Housing Authority worker <u>Barry Jennings</u> and 2. the city's corporation counsel <u>Michael Hess</u>, who were trapped on the eighth floor of the building. Their experiences will be covered shortly.

Fires started <u>when WTC 1 collapsed</u> at 10:28 am, according to NIST NCSTAR 1A, <u>Federal Building and Fire Safety Investigation of the World Trade Center Disaster: Final Report on the Collapse of World Trade Center Building 7</u>, 2008 [see <u>NIST questions and answers webpage</u>]). Dr. Frank Greening's "<u>Valid Criticism of NIST WTC 7 Final Report</u>" has pointed out numerous problems with the official fire story.



Aerial shot of WTC 7 rubble pile - Source: NOAA, 9/23

Nobody searched the rubble for survivors or remains, because the area had been cleared long before the <u>anticipated collapse</u> (<u>mirror</u>) which finally happened at 5:20 pm. "Collapse" was announced as anticipated on virtually all TV networks (or to have *already* collapsed by BBC World News [5:07 pm] and <u>CNN at 4:10 pm</u> – a mistake, not foreknowledge IMO), NY1 at 4:18, ABC News at 4:50, NBC at 4:55, and WB11 at 5:03 pm. See NYPD clearing the people from the vicinity while WTC 7 burned, aired on <u>CNN 9/12 at 12:48 pm</u>. (<u>mirror</u>). People were warned to move because the building was "about to blow up." There was also a rumor among FDNY that the building was going to be "taken down." (<u>MSNBC 5:22</u>

<u>pm.</u>, for example). How that rumor got started nobody knows. Maybe it was the explosions. (aka "<u>loud noises</u>" or "creaking," according to NIST (NCSTAR 1-9, 2008, p. 302)

"According to Hess, when the two men get down to the eighth floor, 'there was an explosion and we've been trapped on the eighth floor with smoke, thick smoke, all around us, for about an hour and a half.' [UPN 9, 9/11/2001] Jennings will also recall hearing explosions. He will say: 'I made it to the sixth floor and there was an explosion. The explosion was beneath me.' [Dylan Avery. 2007] He will add, '[T]he staircase that I was standing on just gave way,' and, 'Then we made it back to the eighth floor, I heard some more explosions.' [BBC, 7/6/2008] Jennings says to Hess: 'This is it; we're dead. We're not gonna make it out of here.' [Penn State Public Broadcasting, 3/1/2002] The National Institute of Standards and Technology (NIST) will claim the two men head down the stairs after 9:59, when the first collapse occurs, and then become trapped around the time the second tower collapses, at 10:28. [National Institute of Standards and Technology, 9/2005, pp. 109-110] But according to the London Independent, they start heading down the stairs after the second attack at 9:03, which suggests the explosions begin earlier on. [Independent, 9/13/2001] Jennings will confirm this, saying that when he hears the first explosion, 'Both [of the Twin Towers] were still standing,' meaning it occurs before 9:59. He says: 'I was trapped in there when both [Twin Towers] came down.... All this time I'm hearing explosions.' [Dylan Avery, 2007] The cause of the explosions is unclear."

- Source: historycommons.org, from the Complete 911 Timeline

Firefighters rescued them after the second tower collapsed. (<u>NIST NCSTAR 1-8</u>, <u>Federal Building and Fire Safety Investigation of the World Trade Center Disaster: The Emergency Response Operations</u>, 2005, p. 109-110.)

The interior of the burning building was inspected by the city's OEM early in the afternoon, according to deputy director Richard Rotanz. ("The Conspiracy Files – 9/11: The Third Tower," BBC, 2008 at 39:00 [clip].) No victims were found in the building. Interesting details from Rotanz include an "elevator car" that was "blown out of its shaft ... down the hall." According to NIST it was 2 cars "ejected" into the hall. (NCSTAR 1-9, op cit., p. 300) How that could have been caused by WTC 1 debris hitting the south facade is unclear.

Real quickly: diesel fuel was ruled out as the culprit: "In addition to Con Ed's [100,105 gallons of transformer] oil, there was a maximum loss of 12,000 gallons of diesel from two underground storage tanks registered at 7WTC. To date, EPA and DEC have recovered approximately 20,000 gallons from the other two intact 11,600 gallon underground fuel oil storage tanks at 7WTC." (Memo to Con Edison Company, "Re: 7 World Trade Center (Trade Center Substation) Investigation Plan," New York State Department of Environmental Conservation, Division of Environmental Remediation, Region 2, Spill Prevention and Response, Nov. 19, 2001 [source: independent FOIA].)

WTC 7 had no real basement. Quoting from NIST NCSTAR 1A, p. 45:

"WTC 7 and the electrical substation were supported on caisson foundations, which were seated in the bedrock, approximately 20 m (60 ft) below the surface. Above the caissons were heavy grillages composed of built-up steel girders. The 2.5 m to 9 m (8 ft to 30 ft) distance between the caissons was braced by reinforced concrete walls with thicknesses varying from 0.3 m to 0.8 m (1 ft to 2.5 ft). Many of the WTC 7 steel columns were embedded in these walls. The areas between the concrete walls were filled with compacted gravel fill and then covered with a concrete slab to form closed cells and bring the structure up to the required elevation. In some cases, the area was left unfilled and used to house fuel tanks."

Regarding accusations of evidence destruction, consider these numbers recorded at the debris sorting site, Fresh Kills Landfill: "...October 2nd. At that time there were about 137,000 tons of debris already stockpiled at the site that had not been inspected. That

number grew to around 170,000 tons by the third week of October. By the eighth of November, under P&J's management, the number was down to less then 1,400 tons." (Phillips and Jordan, "Anatomy: World Trade Center/Staten Island Landfill Recovery Operation" [mirror], disaster.pandj.com [dead link]) For more, skip to the Fresh Kills section.

MEETING MINUTES

FRANK WONG TO REPORT ON TONNAGE. DOS WILL BE THE LEAD LIAISON. DOS COORDINATING

ALL DEBRIS MONITORING BOTH TONNAGE AND LOADS. FRANK WONG TO ASSURE LOAD NUMBERS
ARE REPORTED AT PIER 6 AND 25 BY EACH PRIME. TURNER DELIVERED DEBRIS FROM BUILDING 7
TO PIER. DEBRIS FROM BUILDING 7 SHOULD GO TO FRESH KILLS.

10/08/01@ 9:00 AM

It's relevant that Secret Service and FBI were involved at the site collecting materials since "WTC 7 originally housed highly sensitive government information." (DDC FOIA Sec. 1, p. 137.) A designated spot for WTC 7 debris and steel was set aside at Fresh Kills. (See Appendix 3). The above note from the DDC morning meeting is clarified by Turner's Summary Report: "All debris and steel was transported to the Fresh Kills Landfill in Staten Island (a requirement of the FBI). All heavy steel was trucked to Pier 25 and shipped by barge to Fresh Kills Landfill. All Seasons' [Contracting Co., a Demolition Subcontractor "assigned" to Turner] owned/rented trucks were taken directly to Fresh Kills. At peak approximately 500 trucks of debris per 24 hour shift were removed. In total, 13,373 truck loads of material were removed from the site." (DDC FOIA Sec. 1, p. 139.) That document places the end of the job "on or about November 1st." Keep in mind it was a 24/7 job worked in 12-hour shifts per day.

Only one thing may contradict the "no WTC 7 casualties" fact that allowed such fast cleanup. In a <u>map recently acquired</u> [PDF] from the cache of EMDC data, more than a dozen civilian remains were specifically marked as found in and around the rubble, according to the FDNY Phoenix Unit. (Source: Independent FOIA request.) Of course, since victims fell/ were thrown from 1,300 feet altitude, the possibility exists that the remains came from WTC 1.

DDC chief Kenneth Holden explained why Turner had worked so quickly. "Building 7 is the building north of the entire complex. This building was cleared fast because it was the last building to fall, and thus evacuated. Thus, there are no human remains [to recover]." ("Turner Finishes WTC Work," op cit.) That meant the hazardous rush to clear the steaming hot debris from an unprecedented, uninvestigated building collapse had no critical motive, except perhaps to effectively hide and dispose of crucial evidence.

What about the WTC 7 debris leaning against the neighboring Verizon building? Could that have been reason enough to rush the cleanup? Returning telephone service to the area was definitely critical, but debris was not the problem. Water was, according to Tishman Construction, who was responsible for Verizon. (David S. Chartock, "Day 4: A Unified Industry Digs In So Others Can Dig Out," op cit.) Here are some details on the Verizon damage:

"During the collapses, steel projectiles from the towers hit the Verizon building, sliced the mains and left water cascading into the building's five subbasements, filling the lowermost vaults like a swimming pool. A javelin of steel actually speared through the sidewalk concrete and lodged in the basement. The building's fuel oil tanks were submerged in water, then burst.

"Up in the topmost subbasement, a pool of shin-deep water made unusable the miles of snaking phone cables (black for copper, orange for fiber optics) in the 250-foot-long, 60-foot-wide cable vault. At 10:21 p.m., the building's backup batteries ran out of power and the last call went through the switching equipment.

<sup>&</sup>quot;Debris from Building 7 should go to Fresh Kills." DDC meeting notes, Oct. 8 (Source: <u>DDC FOIA Sec 1</u>, p. 12) Frank Wong was an engineer with the Port Authority. DOS was the Department of Sanitation. See <u>Map</u> for more. Debris and steel.

"Below, Subbasement B held much of the telephone company's historical records, memorabilia and antique equipment, which was damaged by the flood. It took two months to pump out 12 million gallons of water mixed with 40,000 gallons of petroleum."

- Glenn Collins, "A Sturdy Survivor Gets Back to Work; Herculean Effort to Restore A Landmark Battered on 9/11," New York Times, Jan. 6, 2003.

Notice water everywhere in the Etienne Sauret 9/11 footage ("WTC: The First 24 Hours"). Also see the video "WTC7: Let It Burn," which contemplates the FDNY statement that "We couldn't fight the fire in tower 7 because we didn't have enough water. All the water mains were down. What water we had was being supplied by the boats...." (Then Assistant Chief of Department Harry Meyers quoted in Dennis Smith's Report from Ground Zero, op cit., p. 160.) The WB11 helicopter captured one of two such boats, Firefighter, about 12:30 pm. Melinda Murphy mentioned the capabilities. The second boat, John J. Harvey, was also on the scene well before WTC 7 collapsed. The fire could have been fought, it would seem. Building 6 was getting water. As was WTC 3... at low pressure, granted. And 90 West St. – all before WTC 7 went down.

In the 2008 BBC documentary "Conspiracy Files -9/11: The Third Tower," FDNY Chief Peter Hayden (Deputy Chief in 2001) recalls consulting an (unnamed) "engineer" on 9/11 about the possibility of letting the fire burn - if it would lead to "collapse of the building." That engineer advised it would likely collapse (watch clip). Yet the steelframe building "collapse" event was unprecedented, not counting the 2 buildings hit by airplanes that day which were designed completely differently. Despite a long gash in the south face and some SW corner damage (more in depth study here), the alleged danger



Source: FDNY, NIST FOIA 09-42 911datasets.org Release 33, file name(s): 2001-09-11 1827 07 FF Cotten WTC.tif and 2001-09-11 1828 05 Leavy WTC.jpg - **Hosed down on 9/11?** The file name(s) and FOIA folder names starting "2001-09-11" suggest so. Who said to let it burn?

was the fire, "meandering" (as NIST said) around floors 7 – 9, 11 – 14, and also parts of 19, 22, 29, and 30 – out of 47 floors. (NIST NCSTAR 1A, "Final Report on the Collapse of World Trade Center Building 7," 2008, p. 19.) It should have burned all night, or collapsed partially at worst. Damage to the south face (see <u>witness descriptions of the gouge</u> from NIST) was comparable to other buildings in the area. See FEMA 403, <u>Chapter 7</u> for example.

Leaseholder <u>Larry Silverstein</u> – insurance settlement collector of \$4.5 billion – said on PBS's "America Rebuilds" that "I remember getting a call from the Fire Department commander, telling me that they were not sure they were going to be able to contain the fire. I said, you know, we've had such terrible loss of life. Maybe the smartest thing to do is <u>pull it</u>." Apparently he meant pull out "the contingent of firefighters" (NIST NCSTAR 1-9, <u>p. 302</u>), not "pull" the building – as in demolish. That takes weeks to rig, so that can't be it. (Despite the way it came down.) The title "commander" is unspecific (not Chief or Commissioner), so we don't know who this was. Incident Commander (FDNY Incident Action Plan, Oct. 17, p. 8)

<u>Deputy Chief Peter Hayden</u> (YouTube/BBC)? After Chief Peter Ganci died in the first collapses, Daniel Nigro became chief (for a year). When the BBC narrator asked viewers for "<u>Conspiracy Files – The Third Tower</u>" (2008 - <u>mirror</u>) the question "But was Larry Silverstein really giving the orders?" Nigro replied to a different, apparently hypothetical question, "We don't need to ask permission from the owner, no." Did he call Larry or not?



WTC 7 pile on 9/12, I believe. One line waters it on this side. Photo by Tim Tobiason – Source FOIA 09-42 rel. 16

Nigro went on: "When we're in charge of the building, we're in charge. And that decision **would be** the Fire Chief, and his alone." Emphasis added. Not was. Nigro went on: "That's why I would know that there is no conspiracy, because for me to be a part of that would be obscene...." Sounds like he didn't talk to Silverstein. Who did? No matter.

And who was that engineer Hayden mentioned above, who affirmed the suspicions of impending collapse? Didn't he know the tube design of the towers and the conventional structure of Building 7 were totally different? We need to stop and ask **to what degree** was WTC 7 expected to collapse? The way it did? (Or the way NIST modeled it? (a) BBC didn't ask that question. FYI, the building was not observed by NIST to have been "leaning" as one comment went that day, before 5:20: "It's definitely coming down." (MSNBC, from "WTC Building 7 Collapse – 23 Angles") A good old rumor mill. The two towers "falling" was enough to convince most folks, those who were likely **not** educated in physics/architecture.



Photo by Roberto Rabanne, seen at the 9/11 Memorial website

Whatever the cause was for the complete vertical implosion, be it unchallenged fire or planned demolition, the subject will always be controversial. To help, I enter this very paper

documenting the handling of the building's debris as evidence.

"Normally, great care is taken in preserving the evidence from structural failures and crime scenes." (Jim Hoffman, "Destruction of the Towers' Steel Remains," <u>911research.</u> <u>wtc7.net</u>) Not after 9/11. The analysis of structural steel from WTC 7 was limited to the journal <u>JOM</u> in "<u>An Initial Microstructural Analysis of A36 Steel from WTC Building 7</u>" (<u>mirror</u>) and <u>Appendix C</u> of the FEMA WTC Building Performance Study. <u>Add to that a University of California at Berkeley professor</u> who <u>traveled to New York</u> and measured steel beams, <u>Dr. Abolhassan Astaneh-Asl</u>. His valuable images (see <u>Appendix 2</u>) focus on some unusually eroded beams from WTC 7.

"Pieces of steel have also been found that were apparently melted and vaporized not solely because of the heat of fires, but also because of a corrosive contaminant that was somehow released in the conflagrations." (James Glanz and Eric Lipton, "A Search for Clues In Towers' Collapse; Engineers Volunteer to Examine Steel Debris Taken to



Figure C-2 Closeup view of eroded wide-flange beam section.

From FEMA 403, App. C

<u>Scrapyards</u>," New York Times, Feb. 2, 2002.) Where this has been found (in multiple examples), it originated from WTC Building 7.

"A combination of an uncontrolled fire and the structural damage might have been able to bring the building down, some engineers said. But that would not explain steel members in the debris pile that appear to have been partly evaporated in extraordinarily high temperatures, Dr. Barnett said." - James Glanz, "Engineers Suspect Diesel Fuel in Collapse of 7 World Trade Center," New York Times, Nov. 29, 2001.

Dr. Jonathan Barnett was professor of fire protection engineering at the Worcester Polytechnic Institute and, according to this same *New York Times* article, "part of an assessment team organized by the American Society of Civil Engineers and the Federal Emergency Management Agency to examine the performance of several buildings during the attacks." He examined some of this evidence in the <u>FEMA report, Appendix C</u>.

"The severe corrosion and subsequent erosion of Samples 1 and 2 are a **very unusual event**. No clear explanation for the source of the sulfur has been identified. The rate of corrosion is also unknown. **It is possible that this is the result of long-term heating in the ground following the collapse of the buildings. It is also possible that the phenomenon started prior to collapse and accelerated the weakening of the steel structure.** A detailed study into the mechanisms of this phenomenon is needed to determine what risk, if any, is presented to existing steel structures exposed to severe and long-burning fires."

- Jonathan Barnett, Ronald R. Biederman, R. D. Sisson, Jr., FEMA WTC Building Performance Study.

BBC's 2008 documentary/hit piece "<u>The Conspiracy Files – 9/11: The Third Tower</u>" [see <u>clip</u>, <u>download full film</u>] mentioned this particular evidence at 6:09 as a mystery and later attempted to explain it with the help of FEMA Appendix C co-author Richard Sisson. First, Barnett told how he knew the pieces came from WTC 7, for their non-use in the towers (at 47:59). Then Sisson said that the piece wasn't melted, but was instead eroded/corroded by a combination of heat and a "liquid slag" consisting of sulfur-rich gypsum wallboard. Neither Barnett nor Sisson clarified whether or not that constituted an official correction to the FEMA report's earlier suggestion of possible pre-collapse structural weakening.

An <u>experiment performed independently</u> by engineer Jonathan Cole recreated a long-burning fire with a beam covered in gypsum wallboard. No erosion occurred. ("Jonathan Cole - 9/11 Experiments: The Mysterious Eutectic Steel – AE911Truth.org," YouTube, Dec. 3, 2010) It seems only the WTC 7 steel exhibited this "erosion." Mysterious indeed.

While the NIST assured us in 2008 that its findings were "firm," they had to admit that:

"However, the reader should keep in mind that the building and the records kept within it were destroyed, and the remains of all the WTC buildings were disposed of before congressional action and funding was available for this Investigation to begin. As a result, there are some facts that could not be discerned and, thus, there are uncertainties in this accounting."

- <u>NIST NCSTAR 1A</u>, <u>Federal Building and Fire Safety Investigation of the World Trade Center Disaster:</u> <u>Final Report on the Collapse of World Trade Center Building 7</u>, 2008, p. xxxv.

### **INVESTIGATIONS**

"Did they throw away the locked doors from the Triangle Shirtwaist Fire? Did they throw away the gas can used at the Happyland Social Club Fire? Did they cast aside the pressure-regulating valves at the Meridian Plaza Fire? Of course not. But essentially, that's what they're doing at the World Trade Center.

"For more than three months, structural steel from the World Trade Center has been and continues to be cut up and sold for scrap. Crucial evidence that could answer many questions about high-rise building design practices and performance under fire conditions is on the slow boat to China, perhaps never to be seen again in America until you buy your next car.

"Such destruction of evidence shows the astounding ignorance of government officials to the value of a thorough, scientific investigation of the largest fire-induced collapse in world history. I have combed through our national standard for fire investigation, NFPA 921, but nowhere in it does one find an exemption allowing the destruction of evidence for buildings over 10 stories tall."

- Bill Manning, "\$elling Out the Investigation," Fire Engineering Magazine, Jan. 1, 2002. (mirror) Hear Firefighters for 9/11 Truth speaker Eric Lawyer explain what a basic investigation should entail.

The first official scientific investigation into the 9/11 WTC attacks [Ineligible are the 9/11 Commission Report and the Joint Congressional Inquiry] ...was funded with \$1 million from FEMA and "performed under the auspices of the venerable American Society of Civil Engineers (ASCE)." (Langewiesche, op cit., p. 51.) More money was spent in 1998 for President Bill Clinton's sex scandal – a lot more. The product of the FEMA/ASCE effort was the WTC Building Performance Study.

Important criticism points out that this group of scientists "didn't even have the subpoena power to obtain the materials needed to produce a thorough set of findings." See this May 2002 New York 1 News report that finally confirmed the "lack of solid findings." (Source: NIST FOIA, 911datasets.org release 25, 42A0139 – G25D55.)

Appendix D of the study [mirror] said, "Collection and storage of steel members from the WTC site was not part of the [Building Performance Study] Team efforts sponsored by FEMA and the American Society of Civil Engineers (ASCE)." (p. 1.) "As of March 15, 2002, a total of 156 steel pieces (not including most of the fasteners and other smaller pieces) had been inspected. In addition, 7 pieces were set aside from Ground Zero with assistance from the DDC." (p. 10.) But there were "200,000 individual pieces of steel" for crying out loud! (Karl Koch III with Richard Firstman, Men of Steel: The Story of the Family that Built the World Trade Center, Crown Publishers, New York, 2002, p. 322.) For more intensive criticism of this report, see <a href="http://www.911research.wtc7.net">http://www.911research.wtc7.net</a>. Another investigation would be needed.

That is not to imply that investigators didn't spend lots of time inspecting steel, or that they were denied access, [although "difficulty obtaining documents essential to the investigation" was listed as an issue in the <a href="House Science Committee hearing">House Science Committee hearing</a> March 6, 2002].

"The engineers, who more typically are in Manhattan offices designing bridges or high rises, visit the scrapyards on a sporadic schedule, sometimes taking vacation days to make up for the absences from their regular jobs. The teams -- about 20 people are involved in all -- are made up of a mixture of some of the city's most established structural engineers, like Edward DePaola, a principal at Sevrerud Associates, and younger engineers, like Ms. [Anamaria] Bonilla, who works for a California-based engineering company." Also involved was "Ramon Gilsanz, a structural engineer and partner at Gilsanz, Murray, Steficek in Greenwich Village. . . . The condition of floor studs on the steel hints to Mr. Gilsanz that the floor at this spot in the upper reaches of the north tower collapsed not because of a faulty weld, but for some other reason that investigators have still not determined." - James Glanz and Eric Lipton, "A Search for Clues In Towers' Collapse; Engineers Volunteer to Examine Steel Debris Taken to Scrapyards," *New York Times*, Feb. 2, 2002.)

"From the moment the two towers collapsed on Sept. 11, engineers and other experts have been struggling to answer the monumental questions of exactly why and how the buildings, designed to sustain a jet impact, completely collapsed. But despite promises of a broad federal investigation, and after weeks of calls from victims' families and others to halt the destruction of the steel that could hold all sorts of clues, the half-heroic, half-comic scenes at the Jersey City scrapyard continue to play out." (Ibid., emphasis/link added)

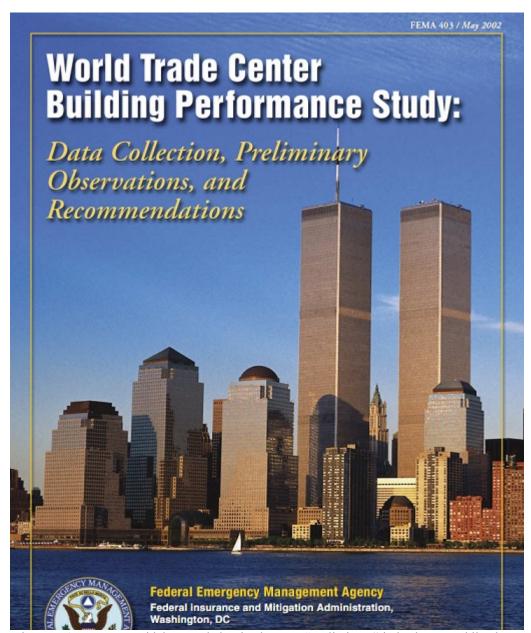
The Study was headed by a Ph.D. engineer named W. Gene Corley, who had led the official review of the 1995 Oklahoma City bombing. Despite his renown he may be fingered for tampering with evidence, as seen later in the <u>Airplane Debris</u> chapter under the heading FEMA's Fuselage Fib. Did Gene alter the famous photo and misrepresent it?

Corley and author William Langewiesche justified the WTC steel scrapping. "Corley told me that given the weights and quantities involved, even the inspections of the steel . . . proved to be an inefficient means of gathering evidence. . . . More important were videos and firsthand accounts from September 11, the original plans . . . and the application of methodical science. Corley had confidence that the catastrophe could be reasoned through." (Langewiesche, Ibid., p. 53.)

Rebuttal:

"Statistical sampling methods would not be daunted by large quantities and weights. In fact, these methods were developed to manage and obtain rigorous results when dealing with vastness. Direct observation, empirical measure, and sampling of the actual steel would be at the heart of scientific method...."

- WTC Living History Project (11)



The FEMA report was widely regarded as inadequate. "Preliminary" indeed. Meanwhile, the steel evidence was being cut and sold for scrap.

By the end of the investigation, Corley had changed his mind about keeping the steel. He felt – as did many others – that his/FEMA's study had been inadequate (NY1 News, CBS, WNBC, Ibid.). In testimony before the House Science Committee March 6, 2002 in Washington, D.C., Corley said much more money would be needed to conduct a proper investigation into the World Trade Center disaster. "The \$40 million would cover the expense of stockpiling the steel and other debris; examining the steel; physically testing the steel; partial parametric computer modeling of the steel, the fire, the plane and the blast; and the examination of egress issues, [said] Corley." (Nadine M. Post, "\$40 Million Needed to Study WTC," ENR.com, 3/18/02. [Note that the money provided NIST would be 16 million.]) In a second House Science Committee Hearing May 1, 2002, New York

Representative Sherwood Boehlert, the Committee Chairman, started by recollecting what had been learned in the hearings two months previous. He said:

"On March sixth, we delved into the procedures that were followed to assess what had caused the towers to collapse in those indelible moments of September eleventh. **We were not happy with what we learned.** We found that the study of the collapse had been hampered by bureaucratic confusion, hesitation, and delay – by a lack of investigative tools and by excessive restrictions on the flow of information. [. . .]

Nothing insured that investigations would begin quickly enough to preserve valuable evidence." - <u>Source</u> – CSPAN (Emphasis added. See also <u>YouTube</u>)

Following the "half-baked farce" of the FEMA investigation (in the respected <u>Fire Engineering Magazine</u>'s opinion), the <u>National Institute for Standards and Technology</u> (NIST) – a federal agency of the U.S. Commerce Dept. – was allocated \$16 million. ("<u>Feds To Begin Skyscraper Autopsy</u>," Associated Press, cbsnews.com, Aug. 21, 2002.) Of course, there would be little steel evidence left in the scrapyards by then.

<u>See the saved steel for yourself</u> in a playlist using mostly <u>NIST video obtained by FOIA</u> in 2010... also available at <a href="http://wtcdata.nist.gov">http://wtcdata.nist.gov</a>. NIST has maintained that their <a href="http://wtcdata.nist.gov">236 pieces</a> of WTC towers' steel was sufficient. From the <a href="mailto:final NIST publications">final NIST publications</a>, see NCSTAR 1-3 for their metallurgical analyses.

To tackle the subject of the WTC twin collapse investigation deception, engineer <a href="Kevin Ryan">Kevin Ryan</a> presented "A New Standard for Deception," which has been reviewed and summarized for readers by researcher <a href="Jim Hoffman here">Jim Hoffman here</a>. Ryan, for example, challenges the official theory that the fireproofing was blown off the steel in the airplane impacts, a necessity for the NIST theory. In support of that NIST theory, Dennis Smith wrote in <a href="Report from Ground Zero">Report from Ground Zero</a>: "It had been reported, though, that the steel had been allowed to rust while waiting to be used and that the company responsible for applying the fireproofing material might have applied the spray-on fiber-based fireproofing over the rust. An engineer named Ron Hamburger was recently quoted in <a href="The New Yorker">The New Yorker</a> saying of the mineral spray fireproofing: 'If you knock it, that spray-on protection will fall off.'" (p. 187) Of course, Hamburger participated in both the FEMA/ASCE and NIST investigations. Still:

"A fire chief expects any burning high-rise building to stand for at least three hours before its structural steel begins to stretch dangerously, at which point they will begin to worry about a potential collapse. But the south tower, which had no asbestos at all, burned for just fifty-six minutes before it fell while the north tower collapsed in one hundred minutes. This is an issue, I suspect, that I will hear more about."

- Dennis Smith, Report from Ground Zero, Ibid., p. 210.

Naturally, the <u>NIST report</u> (finally published in September 2005) is the subject of much debate – at least, where any concrete conclusions were drawn. The most glaring shortcoming was that in the end, the study did not produce a successful model to show how the towers collapsed. (<u>FAQ</u> 10.) The explanation was simply (and repeatedly) that "<u>global collapse</u> <u>ensued</u>." (NCSTAR 1, pp. 145 & 146; NCSTAR 1-6D, p. 314.) That is, no "model" was produced after the initiations – <u>both which are still hotly contested</u> if not proven wrong.

Take the case of the north tower. Lead investigator for NIST Shyam Sunder explained with the PBS-NOVA 2006 documentary "Building on Ground Zero" that exterior columns "snapped" after heated floor trusses sagged and pulled the load-bearing exterior columns inward. Independent investigation of

this using Finite Element Analysis has shown it to be an invalid cause for the observed inward bowing of the south wall. Instead a downward movement of the core solved the problem neatly. Part of the core collapsed first. Why? How?

Additionally, during "collapse" a dust jet began on the west side far below and before the official initiation. (Video source: Craig Braden.) This rules out the "piston" theory. Ironically Eugene Corley's early explanation of WTC 1 initiation (in the core) was more accurate than the NIST conclusions. His evidence was early downward antenna movement. (See "Collapse: How the Towers Fell," Discovery, 2002 at 35:34 – NIST FOIA, 911datasets.org release 27, 42A0249 – G26D125.) Was the NIST report wrong simply because the core columns could not have failed first, except in the event of some kind of secondary device(s)? Critics point out the potential energy released above the first floor (480,600 MJ per tower) would equal 115 tons of

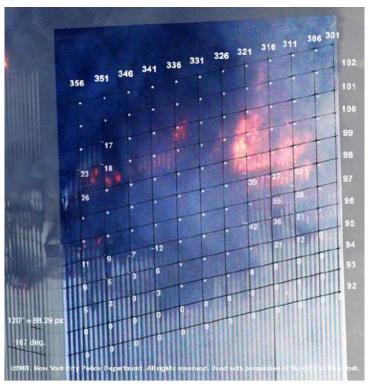


Figure 5-6. Inward bowing of exterior columns of the South wall of WTC 1 at 10:23 a.m. min after impact). Displacements were estimated by NIST from the analysis of this photograph.

NIST NCSTAR 1-6D, WTC Investigation 317

Inward bowing of exterior columns measured by NIST.

TNT x2. (Urich, op cit., p. 23, converted here)

The south tower, or WTC 2 initiation has been independently investigated here, for example. As that tower fell, the upper floors of the southeast side kinked inward. (See Dean Riviere video.) The problem of missing steel evidence prohibited possible answers. Another unexplained event that seemed to mark a destructive explosion occurred on the northeast corner near the 91st floor. The flash of light was seen from several angles in the first seconds of "collapse." It has not been explained that I've seen, other than by "conspiracy theorists" as a purposeful event designed to help bring down the top section of the building in pieces.

Like WTC 1 there were early "dust jets," but low on multiple faces. (Collected videos.) See the "Evacuees" section to meet a survivor who was horrifically burned at street level. How this happened – I am not qualified to hazard a guess. Or should we ask who could have done it? [mirror – link]. See App. 3. also.

While the final report was being concluded, before publication in 2005, NIST admitted to Engineering News-Record that "the \$16-million study may never determine the exact sequence of events that led to the collapses," that only a "most likely" scenario could be offered. (Nadine M. Post, "Research May Never Pinpoint Sequence of Events on 9/11," ENR, Jan. 19, 2004.) Even if NIST made any solid findings, it wouldn't matter legally:

<sup>&</sup>quot;No part of any report resulting from a NIST investigation into a structural failure or from an investigation under the National Construction Safety Team Act may be used in any suit or action for damages arising out of any matter mentioned in such report (15 USC 281a; as amended by P.L. 107-231)."

<sup>-</sup> Final Report on the Collapse of the World Trade Center Towers [NCSTAR 1], Sept. 2005, p. ii.

#### SECOND PLANE IMPACT ERROR

When NIST needed help with the analysis and modeling of the controversial WTC 7 "collapse," Applied Research Associates, Inc. (ARA) was awarded the contract. (NIST website.) NIST and ARA worked together to explain the complex mechanisms for that which had never happened before in the history of steel-framed skyscrapers – total structural collapse due to fire.

The <u>final WTC 7 report</u> was released <u>in late 2008</u>... and was summarized in an August 21 <u>press briefing recorded on C-SPAN</u>. (See a

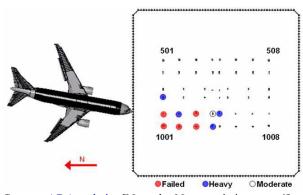


<u>Source</u>: Michael Hezarkhani/CNN The wing tips hit almost simultaneously, thanks to an amazing turn 5s before impact.

rebuttal video now: "WTC7 in 7 Minutes: 9/11 Explosions Not Fire" [mirror], which contains snippets of the NIST briefing from CNN.)

**Five years earlier**, ARA had been <u>awarded the responsibility</u> of analyzing the aircraft impacts on the two WTC towers. The exact amount of money ARA earned is unknown. Whatever the number, it was too much.

"The analyses of the aircraft impacts performed for this investigation are believed to be the highest-fidelity simulations ever performed for this impact behavior using state-of-the art analysis methodologies. Wherever possible, the models were validated against observables or supporting test data developed by the WTC Investigation." - ARA website (dead link – see it <u>cached</u>)



Source: ARA website [Note the N arrow is incorrect!]

At least one drastic error in those analyses deserves attention. This obvious mistake, explained below, begs the question: If such an oversight could be published, just how much of the WTC 7 report was wrong? If such critical data could be overlooked in order to [try to] make the model fit the end result, what real analysis was there?

It should have been easy to determine the angle at which United Flight 175 impacted WTC 2, specifically the lateral/horizontal angle. That is, at least to within 3 or 4 degrees. Just look at the

video frame above (Source: Michael Hezarkhani/CNN). The wingtips entered virtually at the same time. Therefore – as we can see in other video – the angle was nearly perpendicular, between zero and four degrees. **Problem: NIST and their associates missed by nearly 10 degrees.** (Visit the 9/11 forum and a detailed study by one member.) So did MIT, granted, following on the heels of FEMA/ASCE in 2002. See their graphic on page 29 of Chapter 2.

The orientation of the aircraft was crucial in determining which core columns were impacted by what. This nine degrees difference – could it have made a substantial difference in the damage estimate? Such an estimate was included in the NIST's NCSTAR 1, p. 40, etc.

The south tower was struck by an airplane on LIVE TV. Today we have more than 60 videos of this event showing the plane. See <a href="mailto:911conspiracy.tv/2nd\_hit.html">911conspiracy.tv/2nd\_hit.html</a> for a detailed list.

The above image from Applied Research Associates, Inc. has also been included in the NIST document NCSTAR 1-2B, Analysis of Aircraft Impacts into the World Trade Center Towers (Chapters 1-8), p. lxxxii, where there is no "N" arrow. Seriously.

A brilliant video compilation has been assembled with many camera locations pinpointed, thanks to dedicated 9/11 researcher Achimspok. It is titled "The last 12 seconds of the alleged flight UA175 – refined." By using these precise camera locations and 3D mapping software, Achimspok was able to elaborate on a near-perpendicular lateral impact orientation. See also his short video "UA175 - The Last 12 Seconds" (part one) and, crucially, part two. These videos describe the final seconds of the flight path in detail, unlike the NIST/ARA study.

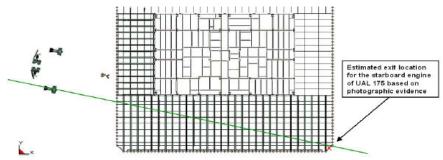


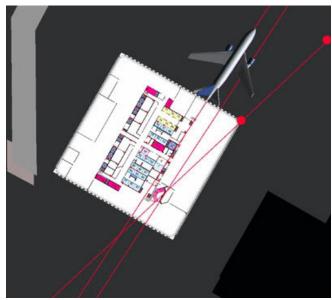
Figure 7–13. Projected trajectory of the starboard engine of UAL 175 with an initial lateral approach angle of 13°.

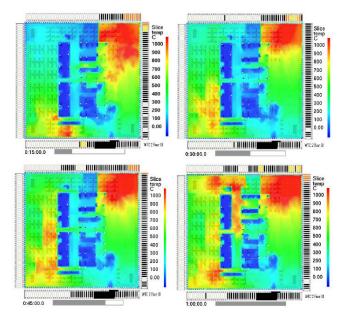
The NIST only showed us the [supposed] final orientation of the airplane and its "assumed" trajectory. In NCSTAR 1-2B (p. 172) we read the lame disclaimer for the mistake by Steven W. Kirkpatrick and Robert T. Bocchieri (with Robert A. MacNeill, Samuel Holmes, Brian D. Peterson, Robert W. Cilke, and Claudia Navarro) of the U.S. military contractor helping NIST – Applied Research Associates (ARA).

"Although the lateral approach angle of UAL 175 had a nominal value of 15 degrees, additional observable information was used to define a most probable flight condition. Figure 7-13 shows the top view of WTC 2 with the engines and landing gear in their pre-impact location. Also shown is the projected trajectory of the starboard engine of UAL 175 with an initial lateral approach trajectory of 13 degrees instead of 15 degrees, **assuming** the engine was not significantly deflected as it passed through the building. With this lateral trajectory, the starboard engine would exit the tower at the northeast corner, consistent with the observables from video and photographic evidence." [emphasis added] "It is possible that the tower structure and/or contents deflected the engine from its initial trajectory. The global simulations described in Chapter 9 used a standard configuration for building contents similar to WTC 1. This configuration did not cause substantial deviation in the trajectory of the starboard engine. This lateral trajectory was, therefore, the most likely and was adopted for the global analyses."

They ASSUMED that "the engine was not significantly deflected as it passed through the building." They disregarded important data, i.e. the correct entry angle, for this reason. This irresponsible act of bad science was done out of laziness. These people were paid by the government (NIST = Dept. of Commerce) and, hence, the taxpaying public.

Additional research into the contents of floor 81 was required. All that really meant was collaborating with the rest of the NIST team. The first clue is provided by the NIST Building and Fire Research Laboratory (Kevin B. McGrattan, Charles Bouldin, and Glenn P. Forney). See NCSTAR 1-5F, Computer Simulation of the Fires in the World Trade Center Towers, to





Revised plan for floor 81 from NIST NCSTAR 1-5F, p. 129.

Figure 6-33. Upper layer temperatures of WTC 2, floor 81.

find a custom drawn floor plan (above, or see full image from Appendix A), which proved to be helpful. "The basic layout from the 78th floor was used for the higher floors with adjustments made to the elevators, vents and major partitions, based on recollections of floor occupants." (p. 117.) From the acknowledgments we learn that "Wayne Schletter, a survivor of WTC 2, provided information about the layout of floors 79 through 82." (p. xxix.) According to nymag.com (and the NIST), he worked on floor 80. "Note that the abrupt change in temperature seen in the northeast corner in the temperature plots of Fig. 6-33 [seen above] are due to a wall assumed in the floor plan. The coincidence of the wall and the observed window breakage for the first 30 min was merely fortuitous - the wall was put there based only on a rough sketch of the 81st floor by an occupant of the 80th." (NIST NCSTAR 1-5F, p. 94.)

#### 4.3.3 Structural Members That Were Reinforced

A summary of the structural members that were reinforced in WTC 2 is given in Table 4–6. The Tenant Alteration Application Review Request Form is included in the documentation for the modifications performed in 1999.

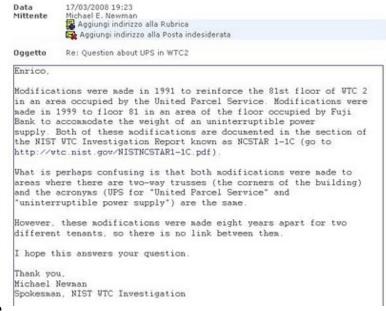
Table 4-6. Structural members that were reinforced in WTC 2.

Date	Floor(s)	Tenant	Structural Engineer	Description of Modification	Reference
1993	96	Fiduciary Trust	LERA	A number of long-span floor trusses and their connections in the northeast quadrant of the building were reinforced due to additional loads from high-density mobile filing cabinets.	W93-2179 PANYNJ (Newark)
1999	81	Fuji Bank Limited	LERA	Documents reference adding reinforcement to existing two-way floor trusses to accommodate new UPS workspace. Documents do not specify the required amounts of reinforcement due to the new superimposed loads.	W99-2125 PANYNJ (Newark)

Source: NIST NCSTAR 1-1C, p. 116.

In addition to extra walls, the important <u>revised plan for floor 81</u> (seen above with plane) contained a **stairwell in the path of the starboard engine**. (NIST NCSTAR 1-5F, pp. 127-130.) This was not in the <u>original plans</u> because it was built for the tenant Fuji Bank. Although specific records for this particular feature of custom construction are not available, some renovations are listed in the NIST report. See <u>NCSTAR 1-1H</u>, p. 57 [<u>image here</u>] ("Floors affected" is obviously wrong, mixed up with WTC1 chart, not pictured. Another mistake by NIST/ARA.) Seen above are some details about tenant modifications.

The letters **UPS** in the relevant "description of modification" above stand for "uninterruptible power supply" – batteries – not United Parcel Service... which the NIST actually confused. See the email from NIST to researcher Enrico Manieri (image below). NCSTAR 1-1, p. 136, says in 1991 the WTC 2 floor 81 "two-way floor trusses were reinforced in area occupied by United Parcel Service." (Two-way floor trusses were used in the corners of each floor.) This tenant being named was certainly a mistake, considering the coincidence of UPS battery systems being installed on the same floor. We could consult a list of tenants at the WTC to verify, I am sure.



Speaking of coincidence, as fate Source: Enrico Manieri, "11-Settembre" blog would have it, the second plane

impacted a floor with literally tons of highly flammable materials. This point was made clearly with detailed photographs of an actual UPS room, by the Italian blog, "<u>11-Settembre</u>." Thanks Mr. Manieri.

Here it was shown that the tenant modifications on floor 81 most likely caused the starboard engine deflection. If not the staircase alone, the racks of lead-acid batteries may have helped. Even without those details, how hard was it to draw the conclusion, without throwing out the plain fact that the doomed jet hit nearly head-on, not at 13 degrees?

Fact: We have established beyond a doubt that NIST and ARA twisted and ignored observable data - the cause - in order to match the observed effect.

What does this say about the <u>controversial WTC 7 collapse study</u> that ARA assisted? Could the cause for that "collapse" – not to mention the towers' – have been invented after ignoring inconvenient data like **explosions**? What about NIST <u>classifying certain documents</u> because disclosing them would "jeopardize public safety?"

In closing the Investigations chapter here, you will notice I'm not including the <u>9/11</u> <u>Commission Report</u>, since it was not a scientific inquiry <u>but instead a story</u> of international terrorism and domestic failures, holding nobody accountable. (Bush and V.P. Cheney insisted on testifying to the 9/11 Commission <u>together</u>, <u>privately</u>, <u>and off the record</u>.) Those failures would be best investigated by those *not* in a legislative (or Executive) position; but the Director of the Commission, <u>Philip Zelikow</u>, was a <u>White House insider</u>. (Never mind the fact that Henry Kissinger was the first pick of the Bush administration – and subsequently denied

by victims' families, considering his business connections with the Bin Ladens, for one. [See *9/11: Press for Truth* at 16:40])

As for their scientific details about the WTC: "The interior core of the buildings was a hollow steel shaft, in which elevators and stairwells were grouped." (9/11 Commission Report; NOTES; Chapter 9 Heroism and Horror; Note 1, 9-11commission.gov) Haha!

Independent research has become a central component of 9/11 investigation. Paul Thompson has fastidiously collected relevant mainstream media stories and arranged them with links and quotes in order, both in print as <a href="The Terror Timeline: Year by Year">The Terror Timeline: Year by Year</a>, Day by Day, Minute by Minute: A Comprehensive Chronicle of the Road to 9/11--and America's Response and on the web, at <a href="historycommons.org">historycommons.org</a>. Kevin Robert Ryan has written Another Nineteen: <a href="Investigating Legitimate 9/11 Suspects">Investigating Legitimate 9/11 Suspects</a> (2013). Let's include me with this very book... and a collection of virtually all the 9/11 videos at <a href="https://example.com/911conspiracy.tv">9/11 conspiracy.tv</a>. For a closer technical look at the physical evidence go to <a href="the911forum">the911forum</a>). Let's not forget <a href="Loose Change forum</a>, video and radio of <a href="Alexanger Groum">Alex Jones</a>, William Cooper (R.I.P)... and our nemesis at <a href="International Skeptics Forum">International Skeptics Forum</a>.



Fresh Kills processed debris from 9/11/2001-7/26/2002. (Image source/date info missing.)

### **FRESH KILLS**

"Kill" is Dutch for "river" or "stream," for your information. Some wanted the name changed. Fresh Kills Landfill on Staten Island was immediately chosen as the WTC debris repository and sorting site. It had very recently been closed to incoming garbage, with plans to build <u>a park</u> there. The Dept. of Sanitation:

"Within 24 hours after the attack, some 1,500 sanitation workers had been dispatched and were already beginning the removal of debris. During the early hours, the material leaving Ground Zero was transported directly to the Fresh Kills Landfill by truck and/or tractor-trailer.

Simultaneously, the Department recognized that its existing infrastructure could be utilized. In particular, the Department's Marine Transfer Stations (MTS) at 59th Street in Manhattan and at Hamilton Avenue in the borough of Brooklyn could provide outlets for limited truck traffic from the site. These

facilities were immediately made available and the first loads were received at 11:00 p.m. on September 11." - Martin J. Bellew, Director of the Bureau of Waste Disposal for the New York City Department of Sanitation. "Clearing the Way For Recovery at Ground Zero: The Role of the NYC Department of Sanitation" November 26, 2002.

Operations at the landfill had been allocated \$125 million from FEMA. Only \$67 million was spent, or 53.6 percent. (Eric Beck, Taylor Recycling Site Supervisor at Fresh Kills is quoted in the film "Collateral Damages," E. Sauret/ Turn of the Century Pictures, 2003, in the section titled "Fresh Kills.") This is one of the reasons why more than 1,000 people were never identified by found remains (see chapter titled "Bodies" for more detailed analysis). Still, Mark Schaming, Director of Exhibitions at the N.Y. State Museum, described the operation as "very organized." His description of the "ground remains of the World Trade Center" resembling "mountains of dirt" explained one of the *other* reasons so few remains were found. (Ibid.) Watch.

Very little video came out of the forensic crime scene at Fresh Kills. Photography was prohibited. Schaming was accurate in his assessment: a "hidden history." A documentary titled "Behind the Lens: Covering 9/11" by Anthony Fioranelli shares an images directory with clips not found on YouTube, as they are protected by copyright. The History documentary "Relics from the Rubble" visited the site also [mirror]. With a connection at FDNY, Paul Berriff's 2002 film "9/11: The Firefighters' Story" also has a scene at Fresh Kills. Find another video in the NIST FOIA 09-42, release 10, WTCI 33 NYC Pt1of4. Fly over the site in a helicopter with Cryptome on January 25, 2002 to see some high resolution photos (bumpy video also available). More images include Sept. 23: example 1, ex. 2. (NIST FOIA 911datasets.org release 21, 42A0073 – G20D1of6, EPA Photos.) See some images and hear some mp3 stories from workers there, thanks to sonicmemorial.org. Also, French TV got in.



<u>Source</u>: Phillips and Jordan, "Anatomy: World Trade Center/Staten Island Landfill Recovery Operation"

"After the debris arrived from the piers, the large metal pieces were extracted, most significantly the vicious tangles of rebar "spaghetti," which by hanging untrimmed off trucks had threatened workers at the Trade Center site with decapitation and now in due justice were to be sliced, sold, and melted down. Once the metal was extracted, the rest of the debris was scooped up and poured into giant shakers, of which there were as many as four. Debris that was larger than six inches across was removed, spread over a field, and raked through by hand. The remaining materials were fed into equally giant mechanical sifters, which shook and spun the loads into three separate debris streams according to size. The first stream contained material less than a quarter inch across, and (with the

exception of the occasional fingernail, as an FBI agent mentioned to me) it consisted almost entirely of asphalt millings and dirt, and was **discarded without being inspected**. The second and third streams contained the larger debris. These materials were carefully scrutinized. They were fed onto **variable-speed conveyor belts** that ran through plastic-walled structures where white-clad workers sat on stools along what amounted to disassembly lines, watching ninety minutes at a time for anything that might be assigned to a victim – badges, guns, and Palm Pilots, for instance – or that might be material evidence bearing on the acts that brought the buildings down." - Langewiesche, op cit., pp. 195-196. (em. added)

On site NYPD head Det. James Luongo confirmed in History's "Relics.." (at 26:43) that the smallest debris (<0.25-in.) was "basically dust. There's nothing to it." David Shayt, the Smithsonian Institution's Museum of American History specialist chosen to collect September 11 debris items thought, "Before the dirt is loaded onto the conveyor belts there are debris fields where the material is spread out. But they were using rakes and pitchforks to do this, to pick through the material."

Shayt was impressed by the honor shown to the victims by the workers. A <u>re-edited clip from History's 2002 "Relics from the Rubble"</u> titled "Archiving the WTC" (<u>mirror</u>) also had positive comments about the work at Fresh Kills: "[E]very single piece of debris, having already been combed through at Ground Zero, went through three more passes under the careful eyes of the officers and agents of the FBI and the NYPD." Ideally, sure.

"Relics from the Rubble" gave us this scene at the landfill. Narrator: "New York City Police Deputy Inspector Jim Luongo and FBI agent Richard Marx have been in charge of the operation from the beginning. They've also led the effort to save personal property and artifacts for museums, hoping to keep these memories alive with future generations." There on site, narrator/interviewer Josh Binswanger asked Luongo, "Is there one artifact that stands out, for any particular reason for you?" The reply: "I think the lack of artifacts stands out to me quite a bit. I think the fact that I haven't seen a door, I haven't seen a phone, I haven't seen a computer. I haven't seen a doorknob. I think that stands out."

The debris inspection conveyor belt in the <u>History video</u> seemed to be running slower than the one in "<u>Behind the Lens: Covering 9/11</u>." (in <u>images directory</u>, the asf/wmv files) The <u>New York State Museum website</u> elaborated on the conveyor belt sorting job. "Work could only be done in 45-minute shifts or the strain from watching the constantly moving material might result in vertigo."

"NYPD Fresh Kills workers indicate that the speed of the conveyor belts were too fast for proper observation of materials ... The quest for speed in dealing with debris was at ground zero and the Fresh Kills Dump." That quote was from the WTC Living History Project, number 52, part of a response to Langewiesche's p. 124: "the process ensured that none of those particular body parts (and obviously very few others) had been treated disrespectfully or "thrown out at the dump."

Before the heavy sorting equipment arrived in October, debris sorting was done entirely by hand using rakes or shovels. Taylor Recycling Facility was employed as a private



Variable speed conveyor belt. <u>Source</u>: New York State Museum website. See <u>related images grouped by Google</u>.

contractor by the <u>U.S. Army Corps of Engineers</u> to essentially speed up the process – or to make it more effective with machinery. ("Reshaping the Hill: Backgrounder on the Taylor Recycling Facility, LLC," mobiusconsultants.com/taylorid.pdf [dead link, but <u>cached</u>]) "I was constantly told ... to move the job, to run the conveyor belts faster and to keep the tonnage up," Taylor supervisor Eric Beck wrote. (Thomas Zambito, "<u>9/11 Remains Fill Potholes, Worker Claims,</u>" NY Daily News, Mar. 24, 2007.) The article also mentioned a lawsuit against the city in which "[t]he families arque[d] that the cleanup was hurried and

slipshod, with the result that more than 400,000 tons of debris weren't properly combed for human remains."

Photo 2. Members of Service Monitoring the Conveyor Belts at the Staten Island Landfill Operation



Source. Photo © Rich Press (2001), used with permission.

The "official" NYSM photo has no such motion blur. <u>Source</u> (PDF 13 MB): <u>Amy Mundorff</u>, "Human Identification Following The World Trade Center Disaster: Assessing Management Practices For Highly Fragmented and Commingled Human Remains," 2009, p. 20. "Used with permission" by Mundorff'.

Out of the <u>21,906 separate body parts</u> found in total at Ground Zero and Fresh Kills, less than 2,500 were from the landfill (out of the roughly 5,000 individual evidence vouchers sent to the Medical Examiner's Office [OCME] for DNA testing). "Since an anthropologist was discarding nonhuman remains at the landfill operation through December 31, 2001, most of these 2,500 nonhuman cases sent to the OCME and subsequently discarded were likely sent after there was no longer an anthropologist sorting them at [Fresh Kills]." (Amy Mundorff, op cit., p. 101) From restaurants, etc. Human remains are covered in the chapter "<u>Bodies</u>."

One shocking allegation came from Mr. Beck: "The W.T.C. debris that was sifted by our machines down to ¼-inch was known as fines. I observed the New York City Department of Sanitation taking these fines from the conveyor belts of our machines, loading it onto tractors, and using it to pave roads and fill in potholes, dips and ruts." (Anemona Hartocollis, "Landfill Has 9/11 Remains, Medical Examiner Wrote," New York Times, 3/24/2007) The city's chief medical examiner Dr. Charles S. Hirsch said he was "virtually certain that at least some human tissue is mixed with the dirt at the Staten Island landfill." (Ibid.) This makes me cringe when I watch from filmmaker Paul Berriff's vehicle as the instructive voice off screen describes the fines as "fill." (9/11: The Firefighters' Story, op cit.)

"Phillips and Jordan officially took over management of the Staten Island Landfill Operation on October 2nd. At that time there were about 137,000 tons of debris already stockpiled at the site that had not been

inspected. That number grew to around 170,000 tons by the third week of October. By the eighth of November, under P&J's management, the number was down to less then 1,400 tons."

- Phillips and Jordan, "<u>Anatomy: World Trade Center/Staten Island Landfill Recovery Operation</u>" [mirror], disaster.pandj.com (dead link, emphasis added)

That meant in 3 weeks an average of 8,028 tons were processed per day, or 334.5 per hour including night hours. To visualize that, imagine 16 big dump trucks unloading and being completely searched every hour – at 20 tons per imaginary truck. About four 2,000-pound loads every 15 minutes. "At the close of the Staten Island Landfill mission... 806,000 tons of debris had been screened. an average of 75 tons per hour. ... Over 1.7 million man hours had been worked. ... When P&J took over the operation the Landfill was processing about



Source: Museum of American History, Smithsonian Institution

1,750 tons of debris a day; at the peak of operations in mid-October we had increased that number ten-fold to 17,000 tons a day. Over the duration of the project the average amount of debris processed was 4,900 tons per day." Also, "14,968 workers had been through the PPE process," or personal protective equipment – a required training for those working near toxic substances or biohazards. That meant many visitors and temporary hands joined in raking, sifting, and spotting for human remains, evidence, and personal property. I wonder how it was accepted that only "806,000 tons of debris had been screened" total. Oh, wait. They didn't screen the dust and dirt... or the steel.



"Collateral Damages," E. Sauret, 2003 – Also found at: <a href="mailto:exhibitions.nysm.nysed.gov/">exhibitions.nysm.nysed.gov/</a>...

Phillips and Jordan has claimed that 2,000 agents were on hand to do this 24 hours a day, 7 days a week (average shift length not specified). If true, a somewhat thorough job may have been possible. Note that the "agents" were "members of the FBI, FDNY, NYPD, and other government agencies." (National Museum of American History, Smithsonian Institution webpage). "Members Of Service." They weren't all employed by the Dept. of Sanitation.

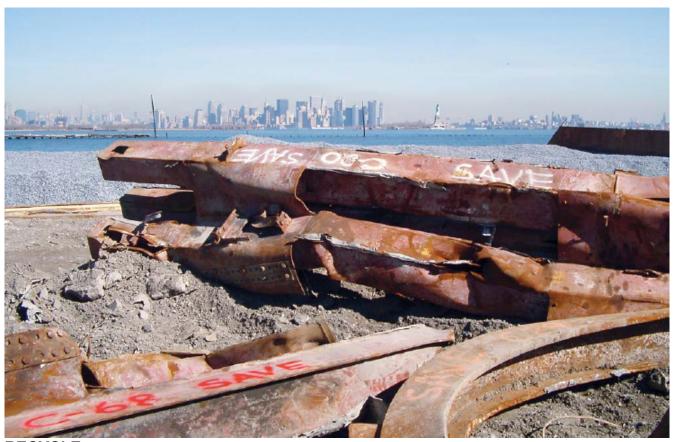
P and J said that in the end, "1,462,000 tons of debris had been received and processed, [and] 35,000 tons of steel had been removed (165,000 tons were removed directly at Ground

Zero)" - to recycling plants. Total tonnage then was 1,662,000. One photo from "Collateral

Damages," seen above, shows [most of] a sign that suggests there was a scale to accurately track the weight totals arriving by truck. For barges, the totals could have been tracked by measuring the draft, or depth in water, to determine the displacement mass. No documentation has been released to show this was done, however at one of the loading piers in Manhattan the process was described. (James Glanz, "From Torn Steel, Cold Data of Salvage," NY Times, Oct. 9, 2001, p. B13.)

At Fresh Kills the end officially was July 26, as noted in the film "Collateral Damages," as well as by P and J. Also according to the landfill, debris removal finally ended June 28. "In the first six months, trucks and tugs removed more than 80 percent of the debris, and in June 2002, the effort drew to a close, at least four months sooner than originally predicted." (R. J. Menard and J. L. Knieff, "GPS at Ground Zero: Tracking World Trade Center Recovery," GPS World, 13:9. 2002.) Thanks to 24/7 hours of operation and variable speed conveyor belts.

About 2 months before closing the Fresh Kills operation, Ground Zero debris removal was declared complete. The sentimental, symbolic "last column" [not technically the last] was removed in a ceremony May 30 (CNN). Now it stands center stage at the 9/11 Memorial Museum. It had been cut down the night before in a more private ceremony (See "America Rebuilds" here, Steve Spak's DVD video "Day of Disaster," or "Metal of Honor.") This and other WTC steel used for memorials across the globe are mentioned below in "Specific Items Recovered."



### RECYCLE

"Of the estimated 1.5 million tons of WTC concrete, steel, and other debris, more than 350,000 tons of steel have been extracted from Ground Zero and barged or trucked to salvage yards where it is cut up for recycling."

- FEMA Building Performance Study, Appendix D, 2002, p.1

At first, recyclable metals went from Fresh Kills to the scrap dealers. That is, after as much as 10,000 tons of mixed scrap was buried before efficient recycling began. (Wendy Neu of Hugo Neu Schnitzer East [Hugo Neu Corporation/HNSE] speaking to the Empire State Chapter of the Institute of Scrap Recycling Industries [ISRI] on November 28, 2001. Online at <a href="http://www.hugoneu.com/includes/pdfs/Speech-11-28-2001.pdf">http://www.hugoneu.com/includes/pdfs/Speech-11-28-2001.pdf</a>) After this initial period of amassing more than 35,000 tons of heavy steel (in 10 days), most of the structural beams bypassed the landfill/forensic crime scene. (Wendy Neu, Ibid. and Philips and Jordan, op cit.) As mentioned above, beams from WTC 7 still went to Fresh Kills as of Oct. 8. (Source: <a href="DDC-FOIA Sec 1">DDC-FOIA Sec 1</a>, p. 12)

"On the 22nd of September the first contracts were awarded to Metal Management and HNSE for 25,000 tons [of recyclable steel] each, to be shipped within a 30-day period in 400-1000 ton barge loads directly from Ground Zero." (See also "ISRI Assists in Cleanup of Recyclable Metal at World Trade Center Site," PRNewswire, Oct. 4, 2001.) Ms. Neu went on to say, "The first barges started arriving at our Claremont facility on September 24th and we completed the contract on November 7th." As production picked up speed in October, "[d]ischarging of the barges that were arriving continuously at our Claremont facility became a 24-hour 6-day a week operation employing every piece of equipment we had."

That was after "another 60,000 tons was auctioned in (3) 20,000-ton lots in October. Metal Management [of Newark, N.J.] was awarded 2 of the lots with [Blandford & Co. of Keasbey, N.J. {edit: not Blandford Land Clearing as Ms. Neu says}] awarded the remaining lot." [emphasis in original] These auctions were held by the "government" of the City of New York, who thereby sold the steel for an estimated \$75-100 a ton. ("Baosteel Will Recycle World Trade Center Debris," china.org/eastday.com, Jan. 24, 2002 and "Baoshan Group Buys Steel Debris from WTC," People's Daily Online, Jan. 24, 2002.)

Although their name was kept out of the media, the Port Authority of New York and New Jersey – the government agency/"public corporation" who built and owned the WTC towers – likely got the money from the auctions. (quoted phrase from Eric Darton, Divided We Stand, A Biography of New York's World Trade Center, Basic Books, 1999, p. 41.) Consider the Port Authority web article (2009-2010) "PA Seeks New Homes for WTC 9/11 Steel." (image) Regarding steel relics stored at the JFK Airport Hangar 17 for future use in memorials: "Letters requesting a piece of steel should be sent on official letterhead to the Port Authority...." (This subject is addressed in the section below, "Specific Items Recovered.")



Steel at Fresh Kills on Sept. 18, NYPD photo from <u>Above Hallowed Ground</u>, p. 131 - Steel would soon be directly delivered to recyclers from the WTC site. Fresh Kills handled 35,000 tons of steel. (P&J)

Hugo Neu, Metal Management, and Blandford profited little due to the low cost of steel at the time, plus added labor. That is, according to Bob Kelman, senior vice president and general manager at Hugo Neu Schnitzer East (Hugo Neu Corporation). No final totals were shared.

"Scrap steel prices are the lowest in 50 years, he said, as developing countries construct their own subsidized steel plants.

"He's selling the steel for about \$105 a ton. But he also pays to store it, and up to \$25 a ton to ship it. 'I'm hoping I net \$5 a ton, but I don't know,' he said."

- Lauren Coleman-Lochner, "The Cutting Edge: Steel Recycler Works on Remains of WTC," *The Record* (New Jersey), Nov. 2, 2001 [full text cached].

Contrary to Kelman's early November estimate here, the china.org and People's Daily Online articles say the steel sold for \$120 a ton... from Metal Management, at least. And, in China, "[t]he average price paid by local mills [in 2001] for scrap steel was 1,250 yuan (US\$150.6) a ton." Granted, that could have been in metric tons, about 10 percent heavier than US tons of 2,000 pounds. (The metric ton, or tonne (t), is 1,000 kilograms, or 1.1023 US tons.)

"Baosteel Group, the nation's largest steel firm, has purchased 50,000 tons of the scrap steel from 'Ground Zero,' the ruins of the September 11 terrorist attack, at no more than US\$120 each ton, according to yesterday's Beijing Youth Daily. [...]

"Another shipment of 10,000 tons of scrap from the WTC arrived in India earlier this month, reported Shanghai Morning Post. The metal will be melted down and recycled into kitchenware and other household items, the paper said.

"India bought its lot at US\$120 per ton from the New Jersey scrap processor Metal Management, which purchased 40,000 tons of the debris at an auction held by the New York City government." (china.org/eastday.com, <u>Ibid</u>.) "Two 33,000-ton consignments have already arrived in the southern port of Madras, a third is on its way and a fourth would arrive soon at the west coast port of Kandla." ("<u>Ground Zero Steel China-bound</u>," CNN.com, Jan. 23, 2002.) See a video on the subject shot in India from the <u>AP archive</u> (#348393, or see <u>YouTube</u>).

Despite FEMA's bloated figure quoted above (350,000), the total amount of structural steel in the WTC complex was estimated at 285,000 tons by Port Authority Chief Engineer Frank Lombardi. Estimated. (James Glanz, "From Torn Steel, Cold Data of Salvage," *New* 

York Times, Oct. 9, 2001.) Therefore, at a theoretical \$20 profit per ton, that was \$5.7 million to split among the three scrap dealers... and the Mafia (see above, "The Big Four").

Note, however, that one steelworker made \$22.65 an hour doing manually what the shredder machines couldn't. His job was to cut steel beams with a torch into sections no longer than 5 feet for the melting furnaces overseas. Kelman estimated one "worker can cut 20 tons a day." (Lauren Coleman-Lochner, Ibid.) One such man said he worked 12- to 15-hour shifts five or six days a week. Visit Hugo Neu's Claremont facility now and watch Nov. 21, 2001 as welders cut the steel. (Source: NIST FOIA 911datasets.org release 27, 42A0269 – G26D145.) See image.



Hugo Neu, Nov. 21, 2001. <u>Source</u> video found in NIST FOIA 911datasets.org release 27, 42A0269 - G26D145 (American Society of Civil Engineers) (<u>mirror</u>)

Then there was the assorted scrap metal like aluminum, which sold for \$1,346 a metric ton in September 2001. (indexmundi.com) The towers were covered in aluminum, calculated by 9/11 researcher Dr. Frank Greening at 43,600 panels to weigh 2,000,000 kg, or about 2,200 US tons. (F. R. Greening, Ph.D., "Aluminum and the World Trade Center Disaster," 2006.) That meant \$2.96 million worth of aluminum was recycled, minus what was buried at Fresh Kills in the first days, or melted in the WTC fires before, during, and after the collapses. (We won't entertain theories that metal was turned to dust, as 2.9% of WTC dust samples were aluminum, and 1.63% iron [USGS website], which is consistent with cement composition. See "The Overwhelming Implausibility of Using Directed Energy Beams to Demolish the World Trade Center Towers," by Dr. Greg Jenkins and Matt Sullivan, 2007. [And "Solving The Great Steel Caper: DEW-Demolition Contrary Evidence," Dr. Greg Jenkins, 2007.])

In her speech quoted above, Wendy Neu gave us more detail on the operation. "Within a few days [of Sept. 23] we started an (8) man burning crew [welders/torch operators] and on the 27th of September we went to a (13) man crew." [This was at Fresh Kills on Staten Island with the previously mentioned 35,000 tons of beams stacked there in the first 10 days.] "Within 24 hours of visiting Fresh Kills for the first time we mobilized the first of what was soon to be an army of people and equipment at that site. By the 23rd of September, 2 days later,

we were moving cut up steel beams from the landfill." At the Claremont plant in Jersey City, they "also employed a contractor with 22 burners from Louisiana along with 2 cranes and grapples." (Wendy Neu, Ibid.) See the map below for location details.

"We have people and equipment from all over the country here,' Kelman said. The company has bolstered its 300 employees with about 80 from other companies, who have come to Staten Island and Jersey City to prepare the steel. The company, which operates seven sites in the metropolitan area, has temporarily closed its facility in Plainfield and shifted its seven workers up here." (Lauren Coleman-Lochner, op cit.)

The huge job of cutting up the WTC steel began, of course, on site at Ground Zero. The ironworkers played a vital part in the rescue/recovery effort. Again, please watch "Metal of Honor: The Ironworkers of 9/11" (YouTube) by Rachel Maguire, 2006. None of these guys thought they were destroying evidence. They worked long hours in dangerous, toxic conditions with a sense of purpose, fueled by encouraging letters from schoolchildren. The environment at the time was one of patriotism and duty-bound cooperation in an effort to save lives in the early days, and later, to help bury the dead and clean a wound. Plus there was the OT (overtime = time and a half pay). These factors of course worked to the advantage of those who needed the site cleared as quickly and quietly as possible.

See this poignant article on the subject: "WTC Steel Removal: The Expeditious Destruction of the Evidence at Ground Zero," by Jim Hoffman. Another resides at sourcewatch.org: "Destruction of Evidence from Ground Zero at the World Trade Center." Perhaps the mainstream documentary "World Trade Center: Anatomy of the Collapse" (TLC, 2002) put it best: "Time is short. The piles of high strength steel evidence are being cut into chunks for export to recycling plants in the Far East."

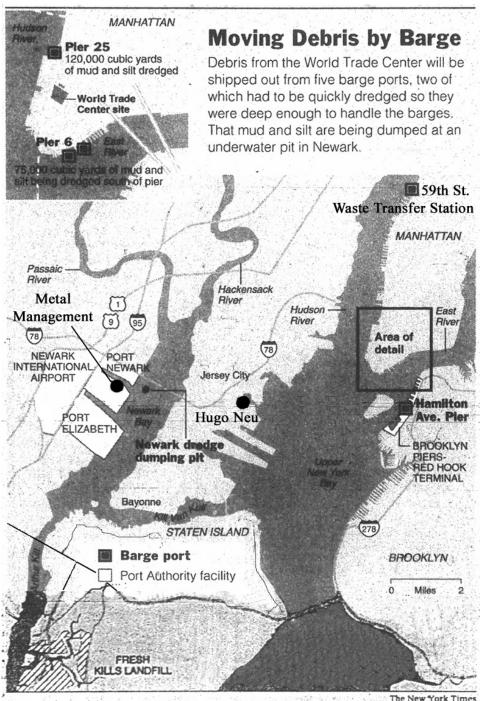
Not all the steel went overseas to India and China. Some took the form of the <u>USS New York</u>'s 7.5-ton bow stem in 2005. This ship's symbolic front piece was hoisted into place in 2006, and officially launched in 2009.

No known record or chart accounts for all the steel actually measured by weight, beyond the details I could find here. As will be seen below in "Truckloads" and "Barges," we can only get an idea using final numbers of total debris amount, which I believe was largely figured by volume projections based on the regular aerial mapping by LIDAR. (The details of which reside with mapping experts. See next chapter, "Tonnage.")

Of course the trucks were tracked. "[T]here were big concerns, because the loads consisted of highly sensitive material. One driver, for example, took an extended lunch break of an hour and a half. There was nothing criminal about that, but he was dismissed. There were also cases where trucks did little detours from their routes." ("GPS on the Job in Massive World Trade Center Clean-Up," Jacqueline Emigh, Access Control & Security Systems, July 2002.) By Nov. 26 the tracking of all vehicles "in real time" by GPS kept the beams from being diverted from said channels. That was after attempted tracking by paper. (See above, "250 tons" stolen under "The Big Four.")

"Just days after the disaster, authorities implemented a paper-ticketing system to direct and track more than 200 trucks from five cartage contractors using dozens of trucking companies to haul debris to five different locations, ranging from 3 to 25 miles from the site. [Note: all 5 locations weren't open until early October. See below.] Manually completed paper tickets accounted for each truckload from the disaster site to the five dump locations. Each ticket included information about the truck, the debris type, the destination, the driver, and other critical data. Handwritten on numbered forms at the load points, the exit from the site perimeter, and the entrance to the dump locations, the **information was later collected** and entered into computer databases." - Menard, R. J., and Knieff, J. L. 2002. "GPS at Ground Zero:

This data would be interesting to sift. Also getting a look at the Port Authority's steel recycling numbers from the auctions would be nice. That is not to mention their sales of WTC steel for memorials all over the country. See "Specific Items Recovered."



Originally published Oct. 2, 2001 with "Red Tape Cut and Rivers Dredged to Carry Debris by Water," by Eric Lipton. Combined here with Oct. 9 version of same map (bottom portion and added text), see p. B13 Find another map in Appendix 2, showing distances. 9/11-related maps collected here.

#### **TONNAGE**

About the unit of measure. The <u>US ton</u> or "short ton" is 2,000 pounds, or 907 kg. The metric ton, or tonne (t), is 1,000 kilograms, or 1.1023 US tons. The traditional UK ton (pre-metric system "Imperial"), "long ton" is 1,016 kg, or 2,240 pounds, or 1.12 US tons. This unit of measure alone complicates the info below. Since the 2,000-pound ton is the preferred, standard method in the US, and since the WTC was in the US, it stands to reason that measurements should be in US tons. Of course, this isn't specifically defined in each of the sources below. I will do my best to pay attention to this important detail.

Note that the ton also measures energy (as in kilotons of TNT) and volumes of water. The long ton is equal to 35 cubic feet (0.9911 cubic meters) of salt water with a density of 64 pounds per cubic foot. Similarly, the "displacement ton" has some limited use in the United States, most commonly in measuring the water displacement of ships, which comes into play when measuring debris as transported in barges. The displacement ton is often measured in long tons or metric tons, one exception the US makes for the other system(s). This is not to be confused with "tonnage," meaning a measure of the size/volume or cargo capacity of a ship that, if full of material, could *weigh* twice as much in tons.

Finally, the often interchangeable terms *mass* (fundamental amount of matter) and *weight* (gravitational force) may add questions for readers. The difference comes into play when altering acceleration and gravity.

# **WTC Twin Towers' Weight**

Recently published peer-reviewed research from engineer Gregory Urich puts the number at 317,500 tons per tower, for WTC 1 specifically. See "<u>Analysis of the Mass and Potential Energy of World Trade Center Tower 1</u>" for details. The methods used are then applied to the complex as a whole to find the total expected debris mass of about 1.6 million tons. See those <u>calculations here</u> in a screenshot of the spreadsheet found in Urich's Appendix 1.

"The mass and potential energy of one of the Twin Towers is calculated based on available data. The mass for each floor is established based on floor types, documented design loads, and estimated inservice live loads. The calculated mass of 288,100 metric tons (317,500 short tons) is found to correspond with two other comparable structures in terms of mass per unit floor area, NIST's SAP2000 model, and the reported amount of recovered debris. The calculated mass refutes the popular notion that the building weighed 500,000 tons." - Gregory Urich, "Analysis of the Mass and Potential Energy of World Trade Center Tower 1," Journal of 9/11 Studies, 2007. (emphasis added)

Mr. Urich's thorough, technical work does help explain the lower examples of final reported debris mass. At the same time it reveals the higher final numbers as exaggerations, fabrications, unknowing failure, or fraud. (See section below, "WTC Debris Weight.") The thesis: with less true mass/energy during the collapse initiation, the possibility for arrested collapse progression was real. That math is studied <u>by Gordon Ross</u> in "Momentum Transfer Analysis of the Collapse of the Upper Storeys of WTC 1," *Journal of 9/11 Studies*, 2006.

Leslie E. Robertson Associates (LERA), the primary structural engineering firm involved in building the two towers, provided the *New York Times* with the total of 1,176,000 tons for both towers together (James Glanz, "<u>From Torn Steel, Cold Data of Salvage</u>," *New York Times*, Oct. 9, 2001, p. B13). Did this include more than the towers? The number used by engineers Eagar and Musso was "about 500,000 t." - metric tons, or about 551,150 tons -

per tower ("Why Did the World Trade Center Collapse? Science, Engineering, and Speculation," JOM, 53 (12) (12/2001), pp. 8-11.), while physicist Frank Greening used the number 510,000,000 kg, which converts to 562,169 tons (source, p. 23.) Similar numbers come from documentaries by PBS. Peter Tyson says "500,000 tons" (www.pbs.org). The "America Rebuilds" webpage says 600,000 tons yet links to another page that says 500,000.

Before construction officially began in 1966, one Port Authority engineer said, "the rock-based foundations will carry 1.25 million tons of superstructure load." (Martin S. Kapp, "Tall Towers Will Sit on Deep Foundations," Engineering News Record, July 9, 1964.) The same article qualifies him stating, "Mr. Kapp is Engineer of Soils in the Port of New York Authority's Engineering Department, which designed the foundations for the World Trade Center." It is uncertain if the "superstructure" of which Kapp spoke included more than just the towers. But the towers were the main subject of the article, not the entire complex.

For LERA, the WTC building materials were supposedly known with a great deal of accuracy. The estimated total amount of debris produced by the towers' destruction was thus obtained by adding up a long list of materials pre-collapse. The total: 1.2 million tons.

"The assessment came with a striking level of detail. It estimated that each of the twin towers contained 3,881 tons of steel reinforcing in the concrete floor slabs; 47,453 tons of vertical steel columns; 8,462 tons of aluminum and glass on the exterior walls; 2,531 tons of various ceiling materials; 4,218 tons of flooring; and 31,350 tons of partitions or walls." - James Glanz, "From Torn Steel, Cold Data of Salvage," New York Times, Oct. 9, 2001.



Figure 3-8 Remains of WTC 3 after collapse of WTC 1 and WTC 2.

Source: FEMA Report, Ch. 3

# Other WTC Weight

The other World Trade Center buildings have no such published weight estimates. Below is a brief attempt at finding approximate figures, to help us understand about how much the final debris numbers should have been... not counting for loss of material due to pulverization and/or fire. See also how "official numbers" might compare with Urich's, had there been any.

To see WTC 3 before 9/11, watch the introduction to the 2008 UK Channel 4 documentary "The 9/11 Hotel" (YouTube). The 22-story Marriott Hotel rose 265 feet above street level and contained 825 guest rooms. The floors were about 64 feet wide and 330 feet long, according to the <u>FEMA report</u> (source for the image above also <u>here</u>). That gives the approximate area of 21,120 sq. ft. per floor, or about half an acre per story (1 acre = 43,560). Total area equals about 464,640 sq. ft, not counting basement.

Gregory Urich calculated WTC 3 mass to be 42,179 tons. Scaled up to reflect the excess difference between popular estimates (500,001) and his number for a tower, Urich figured the Marriott would weigh in at 66,401 (if reflecting the bloated numbers of the towers).



WTC 4, also called the Southeast Plaza Building, rose nine stories at 119 feet tall. <u>FEMA reported</u> that "all but the northern 50 feet of the building" was destroyed. Urich calculated WTC 4 mass to be 74,203 tons. Scaled up to reflect the difference in his WTC 1 estimate and popular numbers: 116,817.

WTC Building 5 (<u>photo</u> - <u>source</u>), the Northeast Plaza Building, was nine stories and 119 feet tall. Urich calculated WTC 5 mass to be 84,357 tons. Scaled up: 132,802.

WTC Building 6 was the NY/NJ metro region consolidated Customs House and was eight stories, 130 feet tall. It contained about 540,000 square feet of space according to Wikipedia. Urich calculated WTC 6 mass to be 41,998 tons. Scaled up: 66,117.

WTC Building 7 was 610 feet high and had 47 floors of office space for a total 1,868,000 square feet (<u>FEMA</u>). Urich calculated WTC 7 mass to be 119,752 tons. Scaled up: 188,523.

The weights of all 7 buildings, then, add up to 997,701 tons for Greg Urich. Scaled up: 1,570,662. But what about the expansive underground levels? See photos, video, and computer models of the 70-foot deep "bathtub" in "9/11 Debris Part 2" at vrt 5:22. Construction

of the slurry wall and foundation is explained in "World Trade Center: Rise and Fall of an American Icon." To understand the layout, look at this map of the shopping mall. Note that the deepest part of the bathtub only made up part of the 16 acre WTC plot. The deepest part occupied 980 x 520 feet according to experienced engineer George Tamaro in "World Trade Center 'Bathtub': From Genesis to Armageddon." See a diagram of the WTC basement at <a href="mailto:nytimes.com">nytimes.com</a>, reproduced in <a href="mailto:GIF form here">GIF form here</a>.

"In the hole, contractors are building what is undoubtedly the world's largest basement. It is 980 ft long, 510 ft wide and close to 70 ft deep. Its six levels provide a total of 48 acres of floor space and will house, among other things, a 2,000-car garage."

- "World's Tallest Towers Begin To Show Themselves On New York City Skyline," Engineering News Record, January 1, 1970.

Urich got a total 444,926 tons for basement levels, including the WTC 7 Con Edison substation. (No basement in WTC 7, FYI.) Scaled up to reflect the ratio at which the towers were publicly overstated: 700,441. (The ratio adds 36.5% in the case of the towers. Total debris it adds 34.5%) These numbers <u>Urich gives</u> are from Table 17: Calculation of Debris Amount. The totals: 1,595,420 tons in reality. Scaled up overestimates total guess 2,437,462.

#### WTC DEBRIS WEIGHT

As "America Rebuilds" noted, as many as 800 trucks hauled debris away from the site daily. This may have been an exaggeration ["Truckloads" study coming soon], considering how the film rounded up 1.8 million tons of debris total (a widely reported number) to "two million." (The video clips [mirror] have been included in "9/11 Debris: An Investigation of Ground Zero, Part 2." [mirror/download]) Specifically, narrator Kevin Spacey says "They had two million tons to clear." The female narrator repeats this number, also – despite the fact that the America Rebuilds website put the total debris number at 1.8 million. The PBS crew, or actually producers Great Projects Film Co., Inc., and Shadowbox Films, Inc., in association with Trigger Street Productions, Inc., had "exclusive" filmmaking access granted by Mayor Rudolph Giuliani (YouTube, or visit www.pbs.org). That is not to say that this "rounding up" was part of the government's propaganda. (Other 1.8 million tons quotes include: Tom Bearden, "Solemn Ground," PBS Newshour May 30, 2002....)

It's fascinating to follow the updates from various sources on the amount of debris being removed and the total expected number of tons. Take this article from Sept. 28:

"So far, about 130,000 tons of the debris have been removed [...]. Officials now estimate that more than a million tons of rubble remain, almost twice the original estimate." - David Sapsted, "250 Tons of Scrap Stolen from Ruins," Telegraph.co.uk, Sept. 28, 2001.

Note that the half million tons "original estimate" was made by FEMA Director Joe Allbaugh Sept. 14 on CBS speaking with Dan Rather (watch in "9/11 Debris" part 2 at 12:47)... a bad guess that perhaps only included the two towers? Yet Allbaugh repeated the figure on CBS 9/15 at 12:10 a.m. In the next of Allbaugh's listed TV interviews, 1.2 million tons was the total ("Newshour" with Jim Lehrer, 9/18/01). "On 9/26 it was agreed by all agencies that the quantity work [sic] would be 1.2 million tons." (Bill Cote, DDC Memo RE: Debris Monitoring Program, DDC FOIA Sec 1, p. 246 of 294.)

During the first 2 weeks at Ground Zero, a few estimates were made by mapping

professionals. "Total" amounts of debris were predicted. However, the amount of debris at that time did not include the non-collapsed parts of WTC 4, 5, and 6. Or did it? And what about 7 WTC, across the street? That's the problem with the mapping figures: these specifics are not given with the numbers.

"Before planning the potentially unwieldy cleanup project, officials needed to estimate the dimensions of the task they faced. Early numbers emerged from a computer program that the Army Corps of Engineers uses to gauge the debris created by natural disasters like hurricanes. **Hastily adapted to the World Trade Center**, the calculations predicted that the site contained 308,900 tons of steel, 351,000 tons of concrete and a total of **1,051,000 tons of debris over all**, said Beau Hanna, an Army Corps expert on debris." - James Glanz, "From Torn Steel, Cold Data of Salvage," *New York Times*, Oct. 9, 2001. [emphasis added for more discussion below])

# Additionally, thanks to the U.S. Army Corps of Engineers:

"On Sept. 23rd, 12 debris specialists started debris monitoring. USACE completed its part of the Debris Operations Plan on Sept. 23rd and turned the operations over to FEMA at the DFO [Disaster Field Office at Pier 90]. The official joint estimate of the **total debris amount was released at 1.2 million tons**." - "Role of USACE at the WTC Response Operations," from George Washington University's "Assessment of Geospatial Technology Applications by the U.S. Army Corps of Engineers during World Trade Center Operations." See also <a href="http://avalon.law.yale.edu/sept11/eng\_004.asp">http://avalon.law.yale.edu/sept11/eng\_004.asp</a>

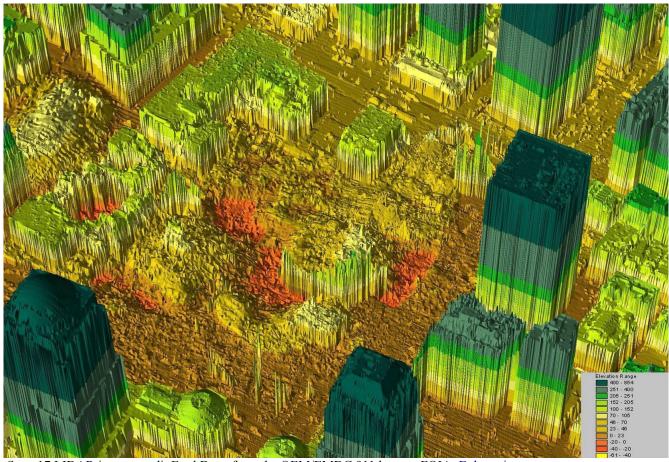
"Total debris amount," meaning... what exactly? How do we make sense of the 1.2 million tons figure in comparison with our often-quoted final total of 1.8 million? "The site" – as described by Beau Hanna in the *NY Times* article – is not defined. Maybe WTC 7 was left out of the estimate. Why, I don't know. Perhaps because Building 7 was across Vesey Street and technically in a different postal zip code? (The towers each had their own, by the way: 10047 & 10048, both now retired. See map). To attempt to clarify what was being included in the 1.2 million, let's look at the definition of "debris" as it should be: "the remains of something broken down or destroyed: RUINS."

"Most of WTC 4 collapsed when impacted by the exterior column debris from WTC 2; the remaining section had a complete burnout. WTC 5 and WTC 6 were impacted by exterior column debris from WTC 1 that caused large sections of localized collapse and subsequent fires spread throughout most of the buildings." - FEMA Building Performance Study, Chapter 4, page 1 or in plain text at 911research.wtc7.net

It's possible that the "total debris amount" only included "most of WTC 4" and "large sections" of WTC 5 and 6, in addition to the towers. WTC 7 should have been 100% included by the USACE, along with the hotel (WTC 3) and most if not all of the basement levels. What is the debris experts' excuse for the missing hundreds of thousands of tons in these early estimates? It seems too wrong to ignore. Does that explain why the *NY Times* said the USACE's computer program was "hastily adapted to the World Trade Center?" Because their original estimate was so low in comparison with the LERA's figures? – which I emphasize were not the product of ongoing observations, but simple math with records of amounts.

Straight from "Available Images" I cut the following text:

"The volume of debris was calculated through GIS analysis. This helped the city determine how much debris was removed. Images were compared daily to determine changes in the site." (Vince Elias, et. al., "New York District in the Red Zone" The New York District Times,



Sept. 17 LIDAR image, credit EarthData, from the OEM/EMDC 911datasets FOIA. Enlarge image.

U.S. Army Corps of Engineers, NY District. Vol. 26, No. 5, Fall, 2001. p. 8.) Again, G.I.S. stands for Geographic Information Systems (see for example "<u>Mapping the Hazards to Keep Rescuers Safe</u>," New York Times, Oct. 4, 2001). The "systems" constituted software, hardware, and people. Visit New York City's makeshift OEM headquarters (that replaced the WTC Building 7's 23<sup>rd</sup> floor "bunker," destroyed on 9/11) in a <u>Sept. 19 NBC News report</u> (911datasets.org release 28, folder 42A0295 - G27D25).

The next early debris mass estimate isn't in any way specific, but it does illustrate that another professional observation failed to account for the full expected amount. Professor Sean Ahearn of Hunter College appeared in the 2002 History Channel documentary "World Trade Center: Rise and Fall of an American Icon" after being appointed by the New York Office for Technology to map Ground Zero. According to the film's narrator, Ahearn's estimate was that the debris totaled "more than one million tons," which was described in the narrator's hindsight as being "far too low." (See "9/11 Debris Part 2: Ground Zero Investigation" at vrt 7:20 for the documentary clip.) The observation came from aerial pictures gathered using a laser system that was able to see through the smoke. Again (see "Available Images"), LIDAR – or "light detection and ranging" – provided the clearest view of the site on September 15.

<sup>&</sup>quot;As of Oct. 20, workers had removed 359,299 tons of debris from the site's 16 acres, according to New York City Mayor Rudolph W. Giuliani's Office of Emergency Management. Only 66,797 tons of that is steel. The total estimated debris tonnage is 1.1 million tons." - Nadine Post, "WTC 'Bathtub' Stablilization Begins," Engineering News Record, Oct. 29, 2001, p. 1.

Two authorities in this massive job give us a final number far lower than 1.8 million. The first, I should note, was published two months before the final truckloads were removed. "Of the estimated 1.5 million tons of WTC concrete, steel, and other debris...." (FEMA's WTC <u>Building Performance Study</u> - <u>Appendix D - WTC Steel Data Collection</u>, May 2002. [mirror])

"In closing, **approximately** 200,000 tons of steel were recycled directly from Ground Zero to various metal recyclers. The Fresh Kills Landfill received approximately 1.4 million tons of WTC debris of which 200,000 tons of steel were recycled by a recycling vendor (Hugo Neu Schnitzer). The remaining material, approximately 1.2 million tons of WTC debris, was landfilled on the western side of Section 1/9 at the Fresh Kills Landfill in a 40-acre site." - Martin J. Bellew, Director of the Bureau of Waste Disposal for the New York City Department of Sanitation. "Clearing the Way For Recovery at Ground Zero: The Role of the NYC Department of Sanitation," apwa.net, Nov. 26, 2002 (emphasis added. cached)

The word "approximately" does not come with a margin of error. The total amount of excavated debris and steel given by Mr. Bellew is only 1.6 million tons, a very round number. Perhaps this is a mistake, an act of carelessness. Yet, when we read the source article, it seems Bellew should be one of few qualified individuals to provide such a number.

Phillips & Jordan, Inc., called upon by the U.S. Army Corps of Engineers as their "Advanced Contracting Initiative (ACI) Disaster Debris Management Contractor," reported a total 1.662 million:

"The last debris was processed on July 26, 2002, day 321 of the project. At the close of the Staten Island Landfill mission: 1,462,000 tons of debris had been received and processed, 35,000 tons of steel had been removed (165,000 tons were removed directly at Ground Zero)." - "Anatomy: World Trade Center/Staten Island Landfill Recovery Operation," Phillips & Jordan, Inc. Document originally at the Disaster Recovery Group web site, now cached.

A similar figure comes from the U.S. Army Corps of Engineers (USACE) debris subject matter experts (SME) Allen Morse and Beau Hanna. "As of 21 May 2002, 1,625,550 tons of debris had been removed from the WTC site." (See "Role of USACE at the WTC Response Operations") Likewise, a May 29, 2002 Fox News/AP story reported that 1,642,698 tons of WTC debris had been removed. Spokesman Alfred Ferguson of the New York City Department of Sanitation gave the same figure in a now missing Waste Recycling News article. USA TODAY May 31, 2002 added the detail that 190,568 tons of that same number was steel, incidentally pointing to the "almost miraculous speed" of the effort. (Rick Hampson, "Silently, WTC Recovery Effort Ends" [emphasis added])

That was the end of May but "[t]he last WTC debris was received at the Fresh Kills Landfill on July 29, 2002." (Martin Bellew, apwa.net, op cit.) This means that the USACE May 21 estimate wasn't the grand total, despite the virtually clean bathtub during the closing ceremony in May. Also a date contradiction: the end of sifting was done July 26, according to the film "Collateral Damages." Watch the part titled "Fresh Kills [Landfill]," which says specifically that debris removal ended *June 28*. Was Bellew mistaken by a month? And if he was mistaken about that, what else did he get wrong? Of course he may be right. Who knows.

"In the first six months, trucks and tugs removed more than 80 percent of the debris, and in June 2002, the effort drew to a close, at least four months sooner than originally predicted." (Menard, R. J., and Knieff, J. L. 2002. "GPS at Ground Zero: Tracking World Trade Center Recovery," GPS World. 13:9.) On page 1 of this same article, the total number is

quoted as "more than 1.8 million tons." So in the last 3 of 9 months – April, May, and June according to GPS World – less than 20% of that 1.8 million (360,000 tons) was removed rather slowly by comparison. This means about half of that 360,000 (probably much less than half, being the final weeks, including some of May and most[?] of June) would have been removed after the USACE estimate mid-May. That would bring our total closer to 1.8 million tons; but how close?

"On Thursday, May 30, 2002, the closing ceremony was held at the Trade Center site, and was televised to the world. A 460-foot inclined steel bridge had been built from Liberty Street to the bottom of the foundation hole, which, with the exception of the intact basement structures along the north side, **now appeared to be barren and almost clean**. The occasion of the closing ceremony was the removal of the last load, a steel column from the South Tower." - Langewiesche, Ibid., pp. 196-7.

So, even if the "2 million tons" statement in "America Rebuilds" was rounding up 1.8 million as an embellishment, should we simply throw out the disparate 1.6 million approximations given by the Department of Sanitation and P & J? After all, that difference does amount to more than TWO of the smaller WTC buildings! (see <u>Urich's calculations</u>) Was there really THAT much dust because the buildings fell?

Construction Equipment Guide, Northeast Edition published June 6, 2002 gives us the total "1.7-million tons (1.5 million t) of twisted wreckage from Ground Zero in Lower Manhattan." (Pete Sigmund, "After Nine Months, WTC Site Cleanup Concludes") Is that an example of rounding up, from 1,642,698?

Tonnage reports during the work track the progress. NYC Office of Emergency Management's Richard J. Sheirer (more on Sheirer here) sometime in December of 2001, according to a graphic on the screen, said "We've removed about 750,000 tons of debris and steel. Still have another 650-or-more-thousand tons to go." ("World Trade Center: Rise and Fall of an American Icon," History, 2002.) By the end of November, debris removal operations were "ahead of schedule. Approximately half of the 1.2 million tons of debris have been removed." (Allen Morse, U.S. Army Corps of Engineers, Debris Subject Matter Expert, Nov. 30 memo to Sean Dowling of FEMA, DDC FOIA Sec. 1, p. 252)

On Jan. 7, 2002 in an article by Eric Lipton, "Cleanup's Pace Outstrips Plans for Attack Site." (New York Times) "Already, 962,725 tons of debris and steel have been carried from the site," Lipton wrote. The article quoted Capt. Raymond Reilly, "a Fire Department official who has worked at the site since Sept. 11," who said "I just can't understand how they did it that quickly." (emphasis added) Days after the 962,725 tons report, we get another update:

"To date, according to the city's count, 1,036,837 tons of charred steel, smashed concrete, crumpled ductwork and other assorted debris has been removed from the site since Sept. 11. Engineers originally estimated it would be a 1.2 million-ton cleanup job; now, the city says, with a likely wrapup date of June, the total could rise to 1.5 million tons." - Eric Lipton and James Glanz, "In the Pit, Dark Relics and Last Obstacles," New York Times, Jan. 13, 2002, p. 1.

That was 74,112 tons in 6 days! 12,352 tons per day, or 514.67 tons per hour! At the highest point of "production" at Ground Zero, 13,900 tons of steel and debris were handled per day (Langewiesche, Ibid., p. 192.) <u>CNN said</u> 108,342 truckloads total were used in the 9-month effort (<u>USA TODAY</u> said 108,444). The popular total of <u>1.8 million tons</u> divided by *that* equals 16.6 tons per truck average. Using a 17-ton load average, you get 726.6 trucks per day – 30 per hour – for the second week of January, 2002. In a related note, "100,000" happens to be

the number of truckloads it took to excavate the basement and foundation area in the 1960's (according to History's 2002 documentary "Modern Marvels: World Trade Center" at 9:00).

What about the early days? On TV CNN said 9/13 at 4:33 p.m., "6,000 tons of debris removed from scene" (graphic on screen) while the announcer mistakenly(?!) said, "workers have carted well over 300,000 tons" away. On Sept. 14 as rain hampered rescue efforts: "Mayor Giuliani has confirmed that 10,000 tons of debris have been removed to date." ("Archive of Week 1 Events at WTC/Pentagon," fireengineering.com) On Sept. 16 ABC News reported: "Rescue workers have now cleared away 21,000 tons of debris, using 1,200 truckloads." In a Sept. 18 memo to Gov. George Pataki from New York State Emergency Management Office Director Edward F. Jacoby, Jr.: "Cumulative total of 46,760 tons were removed from WTC site on Monday, 9/17." (OEM FOIL Sec. 4, p. 16.) ABC News Sept. 21: "5,476 trucks have removed 76,459 tons of debris from the site." Time Magazine reported for the next day: "90,937 Tons of debris removed from the World Trade Center site as of Sept. 22. 2001." Three days later CNN reported: "FEMA said Monday [the 24th] that 101,164 tons of debris have been removed from the disaster site." Updated the next day: "By New York City estimates, debris removal to date has topped more than 108,756 tons." That same day Sept. 25 we got another update from ABC News: "So far, 115,755 tons of debris has been removed." By Sept. 28, "More than 128,050 tons...." (CNN website)

# **Truckloads**

For a time – sorry no data – dump trucks were weighed. "Every dump truck is being weighed to make sure that it is, in fact, carrying a full load. Drivers are required to sign load tickets to make sure that valuable scrap steel is not diverted to secret dumps." (David Barstow, "Officials Are on the Lookout for Relief Effort's Dark Side," NY Times, Sept. 22, 2001, p. B11.) If this was the case, a somewhat accurate total could be expected. However....

The paper tracking system was exchanged for an Internet accessible GPS



Dust suppression was critical considering the asbestos and lead, etc., in very fine particles (<u>Source</u>: www.) See <u>truck wash stations on a map here</u>.

application that more efficiently and comprehensively tabulated the available data. It was cheaper and much faster. **Unfortunately, measuring the exact debris weight was not one of the principal elements of the operation.** Instead, "the FBI and the NYPD [were] closely monitoring the movement of the steel being transported out, since some of it [had] been found in Long Island junkyards." (Dennis Smith, Report from Ground Zero, Ibid., p. 289.)

<sup>&</sup>quot;To address the issue of potential load tampering, we explored several ideas for added load verification.

The team quickly rejected using truck scales to weigh each truck at Ground Zero and again at the dumpsites, because much of the debris was still burning, months after the tragedy. As a result, fire hoses sprayed loads before they headed to the dumpsites, adding water weight and altering actual truck and load weights." - Menard, R. J., and Knieff, "GPS World" Ibid. [emphasis added]

Even after the underground fires were finally extinguished mid-December (See "Metal of Honor: The Ironworkers of 9/11"), construction crews took over for FDNY hosing down the debris. Water was sprayed on the pile to minimize airborne dust, especially during large movements (See an example during "America Rebuilds" here). Nevertheless, health issues among Ground Zero workers have become pervasive. For a collection of related reports and stories, please see "9/11 - The Dust of Ground Zero," a project by Jeff Hill. Or skip ahead to "Dust."

Urich's calculations do include water, by the way: "One easily overlooked factor is the amount of water that inundated nearly all debris areas. Broken water mains and fire-fighting must have made the larger portion of cementitious debris and earth heavier during removal."

Water wasn't the only weight alteration to take into consideration when counting dumptrucks' weight. "We were putting milled asphalt, you know, to kind of build a road and flatten certain areas and put, **put dirt over the debris**, so we could bring trucks in and whatnot..." (Kenneth Holden, Former Commissioner, Dept. Of Design & Construction, "The Center of the World - New York: A Documentary Film" 2003, directed by Ric Burns and broadcast on PBS - transcript available online at <a href="www.pbs.org">www.pbs.org</a>) How much added earth mass are we talking about here? Let's do some digging. :P

"One morning in the late fall, I accompanied Ken Holden into the expanding valley at the center of the pile, where a temporary access road of ground-asphalt millings was being built. A fire chief came up and said, 'You've gotta give us time. You gotta get these guys to stop covering up the debris, burying us with dirt.'" - Langewiesche, p. 70

"After the first few weeks, work at the site settled into a certain rhythm. The fires continued to burn, water was poured onto the pile, the backfill operation delivered dirt to the south side to shore up the slurry wall, and the contractors began pushing in roads of finely ground asphalt, known as millings, which they laid on top of the rubble." - Langewiesche, p. 135.

Building roads for vehicles wasn't the only reason to fill voids in the debris pile. The southern wall of the bathtub – the slurry wall – was dangerously unsupported, and creeping inward. The quick solution was simply to dump earth in front of it, or "backfill." The long-term solution was **priority number one** on the site (to paraphrase a comment on the subject from the film "America Rebuilds"). As quoted also in "Miracle" above:

"[W]e very quickly came up with this idea of tying the wall back. The circumstances you had to work with were that you couldn't even find the wall initially, there was burning debris all over it.'

"But before the work could begin, as engineers were assembling equipment and materials, the southern portion of the wall, near Liberty Street, began to move. A member of the construction crew brought it to [engineering manager for the Port Authority of New York & New Jersey Peter] Rinaldi's attention.

"'A crack opened up on the street overnight,' Rinaldi recalled. 'I looked at it and recognized the wall was failing.'

"So the Port Authority brought in **50,000 cubic yards of sand** to prop the wall in place. Shortly afterward, work began to secure the wall by drilling pipes into the bedrock, anchoring steel cables through those pipes to the wall and fastening them at a 45-degree angle.

"We put in almost 1,000 of these,' Rinaldi said. They finished the job in May 2002."

- Caren Halbfinger, "WTC slurry wall a symbol of survival," The Journal News

Engineer George Tamaro quotes the volume of earth added for this particular purpose at 40,000 cubic yards. See <a href="www.pbs.org">www.pbs.org</a>. See an <a href="aerial photo">aerial photo</a> of dump trucks full of dirt going toward the WTC (FEMA News photo).

"How much does a cubic yard of [earth] weigh?" you ask? Answer: "Sand - approximately 2600 lbs. Gravel - approximately 2750 lbs." See <a href="www.earthhaulers.com">www.earthhaulers.com</a>. So, according to Tamaro, about 104 million pounds, or 52,000 tons was dumped into the south end of the bathtub for the backfill operation. After visiting earthhaulers.com, we learn 5 yards can fill up a single axle dump truck and 10 to 15 yards a "big dump truck." Now we can figure it took between 2,700 to 4,000 trucks to take out that contaminated sand and millings (at 15 and 10 yards per truck, respectively).

No such figures have become available for the road building activities. We can only look at <u>images like this</u> (seen here), and <u>this</u>, and <u>this</u> (source FEMA) to imagine.

Of course the trucks going out were tracked, for security.

"Each load of material generated from Ground Zero was given a four-part disposal ticket for tracking purposes. A representative from the Army Corps of Engineers completed the required information at the loading site and indicated the disposal location for transport (for example, Pier 6, Pier 25, 59th MTS [Marine Transfer Station], Hamilton MTS, or the Fresh Kills Landfill). At the disposal location, two copies were given to the driver, one for the trucking firm and one for the contractor. The



"October 13, 2001 -- Debris removal at the Ground Zero continues 24 hours a day. Photo by Andrea Booher/ FEMA News Photo" (Source)

remaining copies were forwarded to the Department of Design and Construction for the reconciliation of loads." - Martin J. Bellew, Director of the Bureau of Waste Disposal for the New York City Department of Sanitation, op cit., Nov. 26, 2002. (cached)

"Just days after the disaster, authorities implemented a paper-ticketing system to direct and track more than 200 trucks from five cartage contractors using dozens of trucking companies to haul debris to five different locations, ranging from 3 to 25 miles from the site. [Note: all 5 locations weren't open until early October. See below.] Manually completed paper tickets accounted for each truckload from the disaster site to the five dump locations. Each ticket included information about the truck, the debris type, the destination, the driver, and other critical data. Handwritten on numbered forms at the load points, the exit from the site perimeter, and the entrance to the dump locations, the information was later collected and entered into computer databases." - Menard and Knieff, GPS World, op cit.

## The Case of 120 Dumptrucks

"We were able to move 120 dump trucks out of the city last night, which will give you a sense of the work that was done overnight. So, some of the debris has already been removed." - Mayor Rudy Giuliani,

This statement/announcement sounds scripted to me, like an important bullet point on a list. That is not to say Giuliani was in on some grand conspiracy. But notice he didn't say "about 120." Why did he say it? Because the Dept. of Sanitation dispatched exactly 120 trucks according to a report handed to the Mayor's office? Maybe. We can see a line of **dozens** moving down the road in <u>one amazing home video</u> [mirror].

Or was it because the media had raised the topic of missing debris? Listen to ABC News anchor Peter Jennings wonder about the missing rubble <u>9/12 at 12:44 p.m.</u>, after interjecting a comment that a coworker had raised the topic earlier. Jennings: "There is surprisingly so little rubble. Where did all the rubble go?" The explanation/answer given by the on-site ABC reporter is the fact that trucks have been carrying out debris (after saying much of the buildings had been pulverized, even "evaporated."

History Channel's documentary "World Trade Center: Rise and Fall of an American Icon" (2002) says **75 truckloads per day** were removed from Ground Zero during the early stage of the effort (See "9/11 Debris Part 2" here for the clip.) – and that 75 was only after a routine had increased productivity. Peter Tully of Tully Construction gave the same estimate while speaking about the operation as a whole, not his firm alone: "We had 75 trucks leaving a day during the first few days." (Debra K. Rubin and Gary Tulacz, with Thomas F. Armistead, "Crews Mobilize To Remove Debris But Painstaking Work Takes Toll," Engineering News Record, 9/24/2001. dead link) Using this figure, in the 4 days between disaster and mapping – in reality – about 300 truckloads were removed from the site. Why lie or embellish?

William Langewiesche's book provides evidence against the plausibility of Giuliani's dumptrucks claim. Remember the first loads were received at the disposal site (Fresh Kills Landfill on Staten Island) at 11:00 p.m. on September 11 (Bellew, Ibid.). "City trucks began rolling there the very first night, each carrying its dusty little load along a congested route through much of New York – by tunnel to Brooklyn and expressways across the borough, then over the Verrazano Narrows Bridge and down the length of Staten Island. One way alone, that trip could take two hours or more." (Langewiesche, p. 110.) Dusty little load is right. Dump trucks were going uncovered and dry. See some images showing some of the dumptrucks.

#### "First hours and days

... Within 24 hours after the attack, some 1,500 sanitation workers had been dispatched and were already beginning the removal of debris. During the early hours, the material leaving Ground Zero was transported directly to the Fresh Kills Landfill by truck and/or tractor-trailer.

"Simultaneously, the Department recognized that its existing infrastructure could be utilized. In particular, the Department's Marine Transfer Stations (MTS) at 59th Street in Manhattan and at Hamilton Avenue in the borough of Brooklyn could provide outlets for limited truck traffic from the site. These facilities were immediately made available and the first loads were received at 11:00 p.m. on September 11" - Bellew, op cit. See map a few pages above.

While there may have been 120 dump trucks in Manhattan the evening of 9/11, so many loads cannot have been gathered out of the pile while firefighters and others carefully searched for survivors. During that urgent time, all the clamor and commotion would stop when a suspicious noise was heard, sounds of possible survivors. Watch that happen on the night of 9/12 in the famous Naudet documentary "9/11" (link directs to a shot overlooking "the pile" [later called "the pit"] on 9/11 evening as seen in the Etienne Sauret film "WTC: The First 24 Hours," followed seconds later by the shot of busy searching immediately stopped in

silence, [I think on 9/12 evening] shot by the Naudet-Hanlon team). You'll notice the FDNY and hundreds of other volunteers using their hands and buckets to clear the rubble. See Lou Angeli's "Ground Zero's Bucket Brigades" for more film on the scene that first week. Shovels would just bounce off the steel, one man said. The only way to do it was with your hands and the buckets.

"The bucket brigades that a lot of the police officers and firefighters were manning were ineffective. They didn't do anything to get to anybody, but it was a feel-good effort. Everybody wanted to pitch in and help, but in reality and hindsight now, we were moving tiny, tiny fragments of debris. Actually, it was impeding the operation. We needed to get the big equipment in so we could start moving the big steel out of the way." - Battalion Chief John Norman, FDNY 16<sup>th</sup> Battalion in Eisner, Ibid., p. 210.

Said U.S. Army Corps of Engineers' Stephen Browning: "I was talking to a group of NYC firefighters at Ground Zero – they asked me how long the limited and slow 'by-hand' debris removal would continue." (Vince Elias, Sue Hopkins, Wayne Stroupe, Corps Waterways Station, and Justine Barati, Rock Island District, "New York District in the Red Zone," The New York District Times, U.S. Army Corps of Engineers, NY District. Fall, 2001. p. 7.) See also ABC News reporting on the same problem, having to take apart the debris pile by hand... Sept. 13 at 9:58 pm.

In Matt Siegel's film "<u>Three Nights at Ground Zero</u>," it wasn't until day 5 (Saturday the 15th) that the rescue operation "changed course" and "abandoned an ocean of five-gallon buckets in favor of heavier equipment." (See vrt 15:35.) Heavy equipment could only work on the perimeter of the site on the night of 9/11. Bulldozers (etc.) first had to clear the streets to provide access.

"Mike Burton and Richard Tomasetti stayed together, each struggling to maintain an analytical frame of mind. [..] Their focus was on lifting the steel to uncover survivors. It was obvious that large numbers of skilled workers were necessary, along with more heavy equipment than two men could have imagined before. They needed not just the largest diesel excavators and cranes to pick up the pieces but, for lack of stockpiling space, a fleet of trucks to haul off the debris – and they needed it all right away. **The first problem was access**: a major effort would be required to clear a path down West Street just to get equipment to the ruins of the north pedestrian bridge. That bridge by chance was a Tomasetti design, and it was stout, but it had been hit with impossible force when the North Tower fell. Now it was blocking the best route to the pile." - Langewiesche, op cit., p. 92. (emphasis added)

#### A Sept. 19 NBC News interview with FEMA Director Joe Allbaugh had the following exchange:

"KATIE COURIC: How has the site changed since you saw it the first time Wednesday following the attacks?

DIRECTOR JOE ALLBAUGH: Well Wednesday it was devastation. We hadn't really had our teams in place to move as much debris as we needed to. Now they are really working quickly and as fast as they can on the peripheries so to facilitate removal of a hundred, well it's a million-two tons, 1.2 million tons of debris.

KATIE COURIC: How much of that debris has actually been transported? I know about read about [sic] trucks taking the debris...

DIRECTOR JOE ALLBAUGH: I think there's probably 55 thousand tons. Not very much quite frankly when think about it [sic], but we have men and women down there just working their hearts out trying to get to individuals who may be alive. Every minute that goes by is a minute against us.

KATIE COURIC: The actual wreckage it's self look [sic] pretty much the same, then it's just the periphery that that [sic] has been cleaned out...

DIRECTOR JOE ALLBAUGH: We need to clear it, we need to clear the streets. Make sure everyone is safe so the environment, you know, we can really \_\_\_\_ quite frankly [sic]." -

#### http://www.fema.gov/doc/diz01/couric0919.doc

Not only was massive debris in the road, but also destroyed cars were. (Listen to "On the Frontlines: <u>Ironworker Terry Strobel</u> on arriving at Ground Zero.") It is hard to believe Giuliani's 120 dumptrucks were filled during that first night, when travel was difficult. Go yourself, reader, to Ground Zero on 9/12/2001, thanks to cameraman Tim Cothren (<u>ABC at 11:59 pm on 9/12</u>) – which shows plainly that the initial work on the pile was mostly hands-on and slow going. Additional related video testimony is compiled in "<u>9/11 Debris Part 2</u>." [<u>mirror</u>]

"Amazingly, within 48 hours of September 11th the city had started removing material from Ground Zero and by the 14th, 3 days later; over 10,000 tons of debris and scrap had been moved to Fresh Kills Landfill. Shortly thereafter, the rate increased to 7,000 tons per day to the Fresh Kills Landfill. This involved 6-700 truckloads a day leaving Ground Zero [in October]. Some by truck thru the Battery Tunnel and over the Verrazano Bridge and the balance by truck transferred to barges on the Fresh Kills Landfill." - Wendy Neu of Hugo Neu Schnitzer East (Hugo Neu Corp.) to the Empire State Chapter of ISRI (Institute of Scrap Recycling Industries) on Nov. 28, 2001, op cit.

Limitations included the 40-ton weight limit imposed on US roads (exceptions only for long flatbeds that widely distributed the load)... and the meager makes of trucks seen in footage between 9/11 and 9/14. See the <u>amazing video</u> also linked above (<u>original is private</u> as of Aug. 2013), when more than 20 (maybe 120 before directorial editing) small empty dump trucks pass in succession on their way to Ground Zero 9/11 evening. These were Dept. of Sanitation trucks, not construction contractors' earth hauling trucks (some of which did participate immediately, as I understand).

Federal axle limits are 20,000 pounds (10 tons) for a single axle and 34,000 (17 tons) for a tandem, making 27 tons a standard limit for a 3-axle design. (See one source.) Granted, large cranes, flatbeds and long trailer trucks were on the scene (at first in limited numbers) to remove large pieces of steel. Taking into account the mixed, non-uniform characteristics of the Trade Center debris, the actual average truckload was 16.6 tons. (1.8 million divided by total truckloads) That's average, but of course loads weighed much less with no steel.

Using the CNN figure above quoted at 108,342 truckloads, we can divide by the number of days the entire project took – until May 30, 2002, officially 259 days – for an average of 418 trucks per day. Using the extended cleanup time provided by the Dept. of Sanitation (Bellew, Ibid.), July 29, 2002 or 320 days, we get an average 338 trucks per day. (End date of June 30, or 290 days – 374 trucks average, per day.) **Diesel air pollution!** 

# **Barges**

"It is a very slow process. We're working with the Corps of Engineers to dredge out an area near Pier 6 to bring in barges to help expedite the debris removal as opposed to trucking everything out. That's what takes so much time." - FEMA Director Joe Allbaugh, to Katie Couric on NBC's Today Show, <u>Sept. 26</u>, <u>2001</u> (<u>See transcript list</u>).

Mayor Giuliani was quoted above saying 120 dumptrucks were moved out of the city last night, meaning the night of 9/11. He (or somebody scripting his talking points) thought it was important to tell the public that "some of the debris ha[d] already been removed." He continued by saying, "and it will be done by barge all throughout the day today." It's not documented anywhere that *any* barges were loaded on the 12th. Before the barges could travel safely, especially at low tide, a dredging operation had to be completed.

The History documentary "World Trade Center: Rise and Fall of an American Icon," after wrapping up its section on dump trucks and related environmental ramifications, says:

"The Army Corps of Engineers knew there had to be a more efficient and safer way to move the debris. Joe Seebode of the Army Corps of Engineers had finally secured his dredging permits to create the channel that would allow large barges to carry off the wreckage of the World Trade Center. [Seebode:] 'That survey showed that the average water depth was about four to five feet in here, and having worked with Weeks Marine, the contractor to New York City, we established that they needed about fifteen feet to properly operate a barge in this location."

The film continues by describing the process. "The operation continued for nine days until there was sufficient draw for the debris barges to pass unhindered."

"Already by that second day huge volumes of steel and debris were emerging from the site as AMEC fought its way down West Street toward the north pedestrian bridge, and Bovis came in from the south, both companies working furiously to clear room for the cranes and heavy equipment that might help in the search for survivors. Tully was cranking up too, over in the southeast corner. Something had to be done with the resulting material, and right away, or it would start to clog the rescue operation." - Langewiesche, p. 110.

So why did the mayor tell us on national TV at 9:52 a.m. that barges would be removing debris "all throughout the day today" on 9/12? Granted, using barges was a logical course of action. But after some investigation it appears that trucks were the sole method of transportation for the debris in the first few days. As a matter of fact, according to Langewiesche (pp. 110 - 11), the first meeting between self-appointed Ground Zero operations manager Mike Burton and Weeks Marine construction engineer Marty Corcoran in order to solidify the contract - didn't happen until Corcoran "had arrived the day after the attack on behalf of his employer, Weeks Marine" and "[a]fter three hours of wandering the site in astonishment and confusion." So unless Corcoran got to lower Manhattan before 6:52 a.m. (likely from New Jersey, where Weeks was based), the Giuliani press announcement was based on an assumption, not fact.

"Since the truck route to the landfill was more than 20 miles, barges were quickly engaged for debris transportation due to the proximity of the Hudson River to both the World Trade Center and landfill sites. With **each barge carrying approximately 30 truckloads**, barging offered a great cure for traffic congestion and road wear." (emphasis added) - Vince Elias, Sue Hopkins, Wayne Stroupe, Corps Waterways Station, and Justine Barati, Rock Island District, "New York District in the Red Zone," The New York District Times, U.S. Army Corps of Engineers, NY District. Fall, 2001. p. 15.

That figure of 30 truckloads per barge was confirmed in History's "WTC Rise and Fall of an American Icon" (at 46:32). The documentary then tells us a barge carrying 30 truckloads could not pass without dredging of 155,000 cubic yards of material. Langewiesche says "each barge was capable of carrying fifty to a hundred truckloads of debris." (pp. 110 - 11) Different size barges, different load types (steel, other recyclable metals, mixed debris). This truckloads per barge figure is interesting to ponder.

"A total of 508 barges of material were loaded by the Department [of Sanitation] at the 59th Street and Hamilton Avenue MTS's [Marine Transfer Stations], and another 1,423 barges were loaded by the city's contractor, Weeks Marine, at Pier 6 and Pier 25." (Bellew, <a href="Lbid">Lbid</a>.) [There was another barge loading area, near Pier 6 on the East River. I believe it should be assumed that crane operator and primary contractor Weeks Marine considered it part of the

same operation. (See <u>map</u>. Note the two barge ports beside each other.) I have no real reason to doubt the total barge number, other than Bellew's apparent error in the final date of debris received at Fresh Kills - see above.]



"New York, NY, March 15, 2002 -- A truck dumps debris into the bucket of a 500-ton floating crane located at FEMA's Pier 25 Loading Site, a few blocks from Ground Zero. Each day, an average of 290 loads are delivered to the pier, totaling nearly 6,332 tons. Photo by Larry Lerner/ FEMA News Photo" - the original image's metadata. See this location from an apartment above (mirror), in Sept./Oct. 2001. 911datasets.org FOIA release 30, 42A0354 - G30D8, thanks to the International Center for 9/11 Studies. See a bird's eye view of this crane, below.

Let's use the above figures for a couple quick equations. Bellew says **1,931 total** barges and the USACE says approximately 30 truckloads per barge. The product of these numbers is 57,930 truckloads. Did the remainder of trucks really drive all the way to the landfill? For the sake of argument, let's say 100,000 of the 108,342 trucks loaded barges. We conclude there were an average of 52 truckloads per barge... less so if more than 8,342 truck loads drove to the landfill site.

"Weeks was still dredging the Pier 25 site even as trucks began delivering steel to the site for offloading by crane to barges that can hold up to 3,000 tons. 'That's equivalent to 150 truckloads,' says Weeks Senior Vice President George Wittich." - Nadine M. Post and Debra K. Rubin, "Debris Mountain Starts to Shrink," enr.com, 10/1/2001.

I see that V.P. Wittich allotted 20-ton truckloads in his 150 trucks per 3,000 ton barge equation. The final average truckload actually weighed 16-18 tons, according to the final debris count of 1.6 - 1.8 million tons. Also note that the average barge load traveled at less

than a third of its capacity. 3,000-ton loads weren't realistic for the job. Still, considering the government relief money involved, there was an obvious reason for short-loading a truck or barge: to prolong the job. That's not the only reason that makes sense, though.

There was a flow to maintain. The loading process in Manhattan might have taken longer than the unloading on Staten Island, so that problem was remedied as economically as possible, in order to keep the unloaders busy. Remember the trucks were not weighed consistently (see above, "Truckloads") as part of the documentation process. Their location was of primary significance. That, and keeping the mammoth cleanup machine moving.

"A blue barge, actually a garbage scow on loan from the city's Sanitation Department, was the first to fill up. By measuring its draft, or depth in the water, dockworkers determined that it held 443 tons of steel. The tugboat, the Kathleen, was lashed to the barge and it headed to the relay point, a Port Authority pier at the foot of Atlantic Avenue in Brooklyn.

"We always have a barge to load,' said Rudy Wohl, a Weeks port captain, who is along for the ride. 'We don't want a slowdown.'" - James Glanz, "From Torn Steel, Cold Data of Salvage," NY Times, Oct. 9, 2001, p. B13 (emphasis added)



Pier 25 on Sept. 23, 2001. Video by Greg Silberman, NIST FOIA 911datasets.org R30, 42A0354 – G30D8 (watch <u>here</u> or <u>here</u> )

It was easily possible to weigh the debris by observing the depth of a barge in the water – in other words, by measuring the water displacement. Whether or not that measurement was documented is another matter. One source suggests there was that documentation, at least for the steel going directly to recycling (where/when the money was counted). "[W]e have had a representative from the NY Department of Sanitation at our scale around the clock, inspecting and monitoring every truck scale ticket and draft weight on each barge received." (Wendy Neu of Hugo Neu Schnitzer East (Hugo Neu

Corporation) to the Empire State Chapter of ISRI on <u>November 28, 2001</u>.) Remember that steel was the <u>property of the Port Authority</u> of New York and New Jersey, as discussed above. They wanted to get their money's worth, about 100 bucks a ton. (See "<u>Recycle</u>," above.)

Quickly consider that 1.8 million tons divided by 1,931 barges (barges *loaded* in Manhattan, not unloaded at Fresh Kills or recycling centers) equals 932 tons per barge. But first, for a more accurate number, subtract the debris that trucks drove the whole way to the landfill (at least 100,000 tons; see below), and we get 880 tons per barge. "In December 2001, up to 17 barges a day, some capable of holding 650 tons, delivered material to Fresh Kills." ("Recovery," New York State Educational Department at <a href="https://www.nysm.nysed.gov">www.nysm.nysed.gov</a>) To *Fresh Kills* – so not steel.

The minimum recommended barge load was apparently 400 tons for Hugo Neu (see quote below). The maximum recommended load was 1,000, despite the claim of capacity at 3,000 tons according to Weeks V.P. Wittich (and Eric Lipton in "Red Tape Cut and Rivers Dredged to Carry Debris by Water," New York Times, Oct. 2, 2001, p. B7.). Lipton does however note that the total weight was limited by the shapes of the steel and debris, so that

barges "may be able to fit only about 1,000 tons. A truck, by comparison, can carry 10 to 30 tons of steel, again depending on its shape." ...and size. Remember now that the above example showed 443 tons being tugged off for delivery. The date of that is also important – October 4th, according to the writer. Dredging was complete.

"On the 22nd of September the first contracts were awarded to Metal Management and HNSE for 25,000 tons [of recyclable steel] each, to be shipped within a 30-day period in 400-1000 ton barge loads directly from Ground Zero." - Wendy Neu, op cit., Nov. 28, 2001.

Testing Mr. Bellew's figure of 1,931 barges, we find the minimum recommended load (400 tons) gives a debris total of 772,400 tons. The maximum load of 1,000 tons produces 1,931,000. Here again we see the 2 million tons out of the range of possibility, and 1.8 million pushing the boundaries of belief. Remember the first days of debris removal, when trucks were the primary mode of transport. Consider the following figure, not that it is completely limited to truck hauling: "By the end of 29 Sept., approximately 145,000 tons of debris was removed from the WTC site inclusive of the steel designated for recycling." ("Role of USACE at the WTC Response Operations") A similar quote from an Oct. 2nd NY Times article tells us about how much of the initial amount was moved by barge: "Already, barges have been used to move about a third of the 154,000 tons cleared from the site, city officials said." (Lipton, "Red Tape...," op cit.) So about 102,666 tons' worth of dust, steel and debris was trucked to Staten Island in September, 2001. Using 17 tons per load, that's 6,039 trucks 9/11 – 10/2.

Again, dredging the river was required before full scale barge transport could begin. "Dredging started on Sept. 24 at Pier 6 in the East River, close to Ground Zero at the World Trade Center." (Wayne Stroupe, U.S. Army Corps of Engineers, New England District, "Under the World Trade Center," Yankee Engineer, World Trade Center Edition, Dec. 2001, p. 7.)

"The Corps also assisted with arranging emergency dredging operations at Pier 6, near the World Trade Center, to facilitate additional barge loading facilities. Under the emergency contract with Great Lakes Dredge and Dock Company, 75,000 cubic yards of material was dredged in nine days **to allow full loading** of the barges."

- Wayne Stroupe, U.S. Army Corps of Engineers, New England District, "Corps of Engineers Tackle Debris Management Mission at World Trade Center," *Yankee Engineer*, World Trade Center Edition, Dec. 2001, p. 10. (emphasis added)

Another figure from the October 9 *NY Times* "Cold Data" article is particularly interesting, considering the above information on Pier 6. According to records kept by Weeks Marine Inc. – the company responsible for operating the dockside cranes that loaded the barges – "By 7 a.m. that Thursday morning, Oct. 4, exactly 1,688 truckloads had been loaded into barges at the pier." If dredging took 9 days from Sept. 24 – or until Oct. 3, then 98% of the barges operating from those 1,688 truckloads would have been traveling at the limited capacity to avoid scraping the bottom of the river. This is why the number of truckloads per barge was estimated at 30 instead of 150. Also, with this total of 1,688 truckloads for Pier 6, we can use the number of days between the 11th and then to come up with a "trucks per day"number... 73 on average, *from one of several ports*. Math for the other piers is not so straightforward.

"Work is already complete at one of the new ports: a barge loading area has been set up by Weeks Marine Inc. just north of Battery Park City, at the former Pier 25.

A second contractor, Great Lakes Dredge and Dock Company, is scheduled to be finished today on the second new port, which is between the Downtown Manhattan heliport (Pier 6) and the Staten

Island Ferry terminal on the East River in Manhattan.

The fifth barge port is just north of the heliport, at a spot where the East River is already deep enough to accommodate barges." - Lipton, Ibid. (Oct. 2)

# LINK TO MAP (above).

"The dredging mission is expected to conclude on 3 OCT after around-the-clock operations. The mission is around Pier Six involves dredging to facilitate barge access for debris removal. 18 personnel, four USACE and 14 contractors, are performing the mission. To date, more than 53,900 cubic yards of dredged material have been removed. Great Lakes Dredge and Dock Company is performing the work under a Corps contract." - "United States Army Corps of Engineers World Trade Center/Pentagon Bombings Recovery Efforts 9:00 AM; October 4, 2001" online at avalon.law.yale.edu.

To clarify, the first barge port in operation was the 59th street Marine Transfer Station operated by the Dept. of Sanitation. Trucks using this facility had to travel 4 miles north along West Street and 12th Avenue. Steel was not handled there, according to this article:

"To accelerate steel removal, Weeks Marine Inc. has created two steel offloading areas that ramped up operations last week to transport debris by barge for recycling. The sites are located at Pier 25 on the Hudson River and at Pier 6 at the tip of lower Manhattan (see map). The city's usual garbage removal facilities, which is handling smaller site debris, could not accommodate steel pieces." - Nadine M. Post and Debra K. Rubin, "Debris Mountain Starts to Shrink," enr.com [cached], 10/1/2001

The second barge station was a Port Authority facility at the Hamilton Ave. Pier and Brooklyn Piers-Red Hook Terminal. Trucks using this facility had to travel 2 miles south through the Brooklyn Battery Tunnel, a toll road... or take a detour northeast and across the Brooklyn Bridge for a convoluted 5+ mile drive through traffic. I don't know which route was taken more often. As I understand, these ports were available immediately, unlike Piers 6 and 25.

"From the north end of the site the newspapers call 'Ground Zero,' caravans of trucks haul scrap and debris less than a mile to the Pier 25 site, just North of Chambers St. Trucks from the southern end of the site head for Manhattan's Pier 6, East River. The congestion of streets and disturbance of residents is reduced to the minimum. [edited out text]

"Weeks developed the proposal for the barge loading ports, with benefits of water transport over land transport. We had multiple solutions, including our own fleet of tugs, barges, and cranes.' Company literature tells us 'by the mid 1930s, scrap iron became the main business of Weeks.' so besides equipment, Weeks also knew who to talk to. 'We proposed that Weeks put out the solicitations to the steel recyclers.' But before barges could be loaded, the area around Pier 25 needed more depth. 'The dredging permit was issued in 45 minutes,' Wittich recalls, 'and the first emergency dredging commenced on September 13th. Around the 21st, sufficient dredging was completed at Pier 25, and the site began developing into what you see today.'" - "WTC Clean-Up: Getting Down and Dirty," marinelink.com, Dec. 5, 2001 (emphasis added)

Update: I've added a photo to Appendix 2 shot at Fresh Kills showing barges lined up, the debris covered with what appears to be chain link fencing. This must be to control the birds.



City of New York Department of Design and Construction

Kenneth Holden Commissioner

Michael Burton, P.E. Executive Deputy Commissioner

March 15, 2002

30-30 Thomson Avenue

Distribution List

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#### NYC DDC

Recall the one to two year timeline originally anticipated for the job at Ground Zero. That wasn't acceptable to the DDC, especially the ambitious project leader Michael Burton (see him in the PBS documentary "America Rebuilds" here [mirror at 4:14] and [mirror at 6:03], for example).

"Leading the effort was the unlikely duo of Kenneth Holden and his lieutenant, Michael Burton – the two Department of Design and Construction officials who had emerged from bureaucratic obscurity on September 11 to orchestrate an effective response.... [...]

As the second-in-command of an obscure city agency in Queens, Burton had not the slightest authority here at the Trade Center site, but he was willing to assume it anyway. This was typical of him. Burton's brashness was well known within the DDC, where people tended to be cautious of him for his disdain of procedure, and for what many saw as his arrogance. Holden himself was wary of Burton, and said he felt the need to "cage" him regularly, but he recognized Burton's effectiveness nonetheless. Burton was the DDC's doer. And Burton had an agile mind. He was a right-wing conservative but also surprisingly supple, and he understood now that conventional standards of safety simply did not apply to these ruins." - Langewiesche, p. 65 and 93.

"No [OSHA] citations were written or even considered during the first three months of the recovery effort." (Jeffrey W. Vincoli, Norman H. Black and Stewart C. Burkhammer, "SH&E at Ground Zero," cached webpage).

Critics of Langewiesche's American Ground have listed the first sentence quoted above as a factual error (see <a href="https://www.org/...">wtclivinghistory.org/...</a>, number 12). The WTC Living History Project reminded us that the job was technically a rescue and recovery operation, so FDNY led the efforts in that regard. (Also, since Langewiesche was given access by the DDC, he was predisposed to writing positively about them. [source]) Dennis Smith wrote in his Sept. 12 entry that "the mayor has given responsibility for clearing the site to the city's Office of Design and Construction, though the fire department has complete charge of the operations." (Report from Ground Zero, op cit., p. 194.) An organizational chart included in the FDNY Incident Action Plan for Sept. 30 (to Oct. 1) placed Assistant Chief Frank Cruthers at the top, with all other cooperating agencies reporting to him. A video on globalimageworks.com shot sometime in October reveals his anticipation of a 9 month to one year job – info perhaps relayed from DDC's Burton. The problems were yet to come.

## DDC ...

ITEM	DESCRIPTION	ACTION BY	STATUS
1	639 TIE-BACKS ARE INSTALLED. THERE IS TENSION ON 616 TIE-BACKS.	BOVIS/AMEC	OPEN
2	PEDESTRIAN WALKWAY WORK ON LIBERTY STREET FROM CHURCH TO THE SOUTH PEDESTRIAN BRIDGE HAS STARTED.	BOVIS/AMEC	ON-GOING
3	F.D./BOVIS/AMEC TO WALK SITE TO REVIEW FALL PROTECTION, FIRE AND P.D. TO NOTIFY ALL PERSONNEL REGARDING NOT STANDING ON SLURRY WALL BE JUSE OF THE LIL HAZARD THIS CREATES, LIBERTY MUTUAL ISSUED WRITTEN OBSERVATIONS FOR IMPROVEMENT LED CONTINUES WE SEW OF FAIL PROTECTION. SAFTEY TO CONTINUE DAILY FOLLOW LIP	EROC/F.D./P.D	OPEN
4	SAFET / ISSUE REGARDING DIVAUX C. LLERT, JOM T	BOVIS/A WEC	OF
5	F.D. & P.D. TO STRICT, YENFORCE KEEPING SPOTTERS 50' FROM EXCAVATIO I MACHINES WHITE THEY ARE OF ERATING. ALL SHIFTS TO BE INFORMED OF THE SAFETY CONCERNS REGARDING WORKING A POUND EQUIPMENT OR MACHINERY. DAM LEQUIPMENT OF EACH SERVICES AT 5:00AM & 5:30 OF BOVIS AMECISTED HELDINGS. AT LAG 5 YSTEM IS SETUP TO ALERT OF EACTORS. NOW HELD TEAM TO START 3/5/02. F.D. TO PROVIDE. RAINING ON SITUE FOR EXCURS.	P UII ALL	
6	ADDITIONALS TAIR TOWERS IN TO BE ERE LED ACCESSION OF HED CESS NAMP HAS DEDICATED VALKWAY FOR PLAS ON THE USE	BOV S/ ME	
7	ASBESTOS WORKSTA TO TAKE THE HEMAINE RIDE US		1
3	F.D. EMPHASIZED NEED TO BE MADE OF LOCATIONS WHERE MEN ARE WORKING BELOW GRADE. ON FINED SPACE PROTOCOL WAS ISSUED (BULLETIN # 15) ALONG WITH BULLETIN # 14 RESPIRATOR REQUIREMENTS FOR PROTECTION AGAINST SPECIFIED HAZARDS: SILICA.	ALL	
9	D.O.S. TO CONTINUE WATERING AREA STREETS FOR DUST SUPPRESSION.		
10	EMERGENCY GENERATOR CRANK CASES TO BE EMPTIED OF OIL BEFORE REMOVAL BY HAZMAT TEAM. TULLY TO REMOVE OIL BY 3/25/02. MAINTENANCE MECHANIC WILL DO WORK. EPA TO OBSERVE. ANOTHER OIL TANK (10,000 GALLONS) WAS FOUND AT W31. EPA TO MEET WITH BOVIS/AMEC FOR REMOVAL OF OIL.	BOVIS/AMEC	
11	ORIENTATION TRAINING TO BE HELD FOR NEW EMPLOYEES AFTER THEY RECEIVE ID'S AT ID TRAILER. ONSITE TRAINING CLASS TO BE HELD ON TUESDAY 3/26 AT 10 AM AND 7PM.	ALL	
			1

DDC Meeting Minutes, 3/25/2002. Source: DDC FOIA Sec. 1

To sum up the conflicts among leadership, <u>wtclivinghistory.org</u> elucidates: "[T]he fight between 'speed in debris removal' versus 'the civilized recovery of human remains' embodied the one over-arching and driving conflict that both separated us from the external administrators and joined us (in our 8 perspectives that actually did the work at Ground Zero) into a common goal." Those 8 were "construction, iron workers, engineering, supply and logistics, NYPD/ESU [Emergency Service Unit], PAPD [Port Authority Police Dept.], FDNY victims' family members and workers in recovery."

The "external administrators" worked for the city's DDC – Kenneth Holden and Michael Burton. As an October 31 CBS program noted, "Holden is under pressure to get the job done." (60 Minutes II, "Under Ground Zero" - Watch it here on YouTube [911datasets.org release 25, 42A0140 – G25D56], where Dan Rather says "enormous pressure.") And who was responsible for the city? Mayor Rudolph Giuliani was.

The International Association of Firefighters (IAFF) was the most outspoken opponent of Giuliani's run for President of the United States in the 2008 election.

Watch "Giuliani Gets Exposed As Fraud by Firefighters"



Mayor Giuliani, Gov. Pataki, President Bush

(also known as "Rudy Giuliani: Urban Legend"). While this video drives to the heart of the matter, some <u>fact checking</u> is appropriate. The following words from the video may be a bit harsh, but they illustrate well the feelings of the FDNY at the time of early November, 2001



FDNY, Families Protest (<u>rudy-urbanlegend.com</u>) Also mentioned at the 9/11 Memorial webpage.

(and after). Also, an important altercation will be introduced.

"Narrator: 'When Rudy started his scoop and dump operation, just 101 FDNY members had been recovered. Two hundred and forty-two FDNY members and hundreds of civilians would either stay buried at ground zero or be removed like garbage and deposited at the Fresh Kills Landfill.'

"Steve Cassidy, president, Uniformed Fire Officers Association Local 94: 'Scoop up the debris, dump it in a landfill; the heck with the fact that it was firefighters or others who would never have a funeral for their family.'

"Narrator: 'Families and off-duty fire fighters protested Rudy's appalling lack of respect. In response, Giuliani had them arrested. When faced with the public outrage, Mayor Giuliani relented and let FDNY members go back to work on the pile."

- Excerpt from IAFF video "Rudy Giuliani: Urban Legend"

at the <u>9/11 Memorial webpage</u>. Ironically, <u>factcheck.org</u>, in their critique of the IAFF video, got the protest date wrong. They said Nov. 3. *The New York Times* accurately plots the event on Nov. 2. (Diane Cardwell, "<u>City to Drop Charges Against 17 of 18 Firefighters Arrested Over Protest</u>," Nov. 11, 2001. See also the November 2<sup>nd</sup> entry in Dennis Smith's <u>Report from Ground Zero</u>, op cit., p. 339.)

This protest/demonstration came after Mayor Giuliani instituted a new protocol that limited firefighter access, speeding up the debris removal work (in the name of safety, though not in response to an accident. Fewer firemen were allowed to search for remains: 25 instead of 64. (Jennifer Steinhauer, "Mayor Criticizes Firefighters Over Stand on Staffing at Trade Center Site," New York Times, Nov. 9, 2001.) There were also 25 officers each from the NYPD and PAPD. (Smith, op cit., p. 336.) FDNY would have no authority to stop equipment to dig carefully for suspected remains, without consent from engineers and "construction types" (Langewiesche, op cit., p. 163). The 25 each from the uniformed services would be "placed on stand-by basis until a crane or a Cat or an excavator exposed a body." (Smith, op cit., p. 336.) Last but not least, there now had to be a 50-foot distance between FDNY personnel and machines' excavation areas (mentioned in "America Rebuilds" here). Firefighters were justifiably pissed.

Psychologically speaking, this couldn't have come at a worse time. In the natural "stages" of grieving, anger was practically scheduled to rise. (See <u>grief.com</u>.)

Unwilling to give up control of the site, but more upset by the dishonor done to the remains of their deceased brothers, FDNY protested. Their families joined in with them. They approached the Ground Zero checkpoint chanting, "Bring our brothers home!"

"The march was stopped at the metal barriers, and with the confrontation now face-to-face, a top police chief ordered a group of officers to handcuff several firefighters who were at the front of the line. [...]

"I'm sorry I have to do this,' the officer said as he grabbed Pete's wrist. Pete, retired after twenty-one years in Rescue 2, and one of the legends of the fire department, did not try to resist. But at that moment, another chief down the line ordered another policeman to handcuff additional firefighters, Captain Jack Ginty of the Fire Officers Association among them. 'We were being arrested for no discernable reason,' Captain Ginty said. 'It was then that things heated up, and the barrier was raised and used to push back the police officers.' With everyone's attention diverted, the police officer took the handcuff off Pete's wrist and said, 'Beat it.'

"Later, an officer who was driving the handcuffed fire Captain Jack Ginty to the police station

became so upset over the senselessness of the event that he had to pull his car over to the side of the road to bring his sobbing under control."

- Dennis Smith, Report from Ground Zero, op cit., p. 342.

Eighteen people were arrested, making the demonstration a "riot" according to Langewiesche, p. 153, 161, and 164. Dennis Smith noted: "It was definitely not a 'melee' or a 'brawl' as the tabloids have suggested. (op cit., p. 343.) No punch was thrown in Smith's version, but Langewiesche wrote, "I saw one policeman go down with a roundhouse punch to the face" on page 150 of <u>American Ground</u>. This protest – and "melee" according to Steinhauer, *New York Times*, Ibid., Nov. 9 and Cardwell, <u>op cit.</u>, *New York Times*, Nov. 11 – was not mentioned in the PBS program "America Rebuilds" at all. (<u>Watch. [mirror]</u>)

The closest "America Rebuilds" came to portraying the conflict began with DDC's Michael Minuto describing the dangerous situation of giant excavators constantly moving. First, inside a shift change meeting with the construction workers, a recovery [of human remains] was mentioned as stopping work. Then Burton introduced the safety issue posed by the massive machines. Next narrator (actor) Kevin Spacey introduced the restrictions posed on recovery, including one spotter per excavator, standing 50 feet away. Spacey said, "Many firefighters objected." <a href="Sam Melisi">Sam Melisi</a>, as the FDNY spokesperson in the documentary, complained about the restrictions. At 50 feet you would basically need binoculars.

Then a "confrontation" on site one day in October was shown, when a stairway was apparently uncovered and cleanup work halted. DDC's Minuto said he wanted "those [FDNY] guys out of there" because it wasn't safe. [Hello! We're talking about **FDNY**!] Recalling the event, DDC's Faisal Choudhury tells the camera about how he radioed "10&10," Engine Co. 10 and Ladder Co. 10, "the firehouse directly across the street from the south tower." (Smith, Ibid., p. 45.) Choudhury's talk with the "chief" there eventually produced the intended result. FDNY backed out.

Melisi was shown on camera again. "It didn't always go smooth. I can honestly say that. [He smiles] There were times when we butted heads, but, you know, you try to come to a reasonable solution." After a heartbreaking interlude of FDNY men carrying out Stokes baskets (<u>rigid orange stretchers</u>) draped in American flags, the subject of the documentary changed to rebuilding.

On the other hand, in "Rudy Giuliani: Urban Legend," the conflict was highlighted, minus the brief "violence," as resulting from the "scoop and dump" operation kicking into high gear once the cache of millions of dollars in gold and silver was recovered from the Bank of

Nova Scotia by armored truck. (On the subject of gold, see this article by Jim Hoffman of 911research.wtc7.net. Or the NY Times.)
Removing the gold and silver only marked the acceleration of debris removal by coincidence, apparently. Yet it was symbolic.

As a consequence of this protest and the attention it garnered, Giuliani politely doubled FDNY search crews. (Diane Cardwell, "City to Drop Charges Against 17 of 18 Firefighters Arrested Over Protest," New York Times, Nov. 11, 2001.) New safety measures stood, though, so many firefighters would basically "wait on the



FDNY families protest (www.rudy-urbanlegend.com video link here)

sidelines while [...] so-called spotters keep their eyes peeled for remains." (Jennifer Steinhauer, Ibid., Nov. 9.)

Note that the Steinhauer article said the FDNY presence was reduced to 25 from 64 "last week." This wasn't a sudden change, but the second or third step in an incremental transition. Dennis Smith reported on September 28 that there were fewer firefighters there, after hearing on the 27<sup>th</sup> from an angry battalion chief that only 150 from the fire department would be "allowed" to help. (Smith, op cit., p. 253.) The "crime scene" status of the site was apparently invoked for that change. On September 29, Smith wrote, "The fire department presence has been cut. 'Guys are reeling,' Lieutenant McCaffery says to me. 'And no one has the slightest idea how it will end.'" (Ibid., p. 262.) A month later, Smith reported the new, harsher limits being instated on October 31, the same day the gold and silver was excavated: "There would be no more continual hand digging, and no more on-the-site spotting," despite the "250 firefighters unaccounted for out of 343 reported missing." (p. 336.)

With tensions running high between the city and its fire department, Giuliani set up a meeting. Langewiesche said the firemen "demanded a meeting." (op cit., p. 164.) Dennis Smith, a Giuliani supporter, said it was the mayor's idea (on page 352). FDNY widow Marian Fontana had recently founded the September 11<sup>th</sup> Widows' and Victims' Families Association, so with her help 75 families showed up November 12, 2001 at the midtown Manhattan Sheraton hotel. Here the wives and widows were given a voice... much to Michael Burton's dismay.

"Burton started gamely into an explanation of the transition on the pile, including the new placement of spotters, the 'safe areas,' and the handling and inspection of the debris. The crowd listened sullenly for a while, until a woman stood up and yelled, 'We don't even want to hear from you! You're Mr. Scoop and Dump!'

[...]

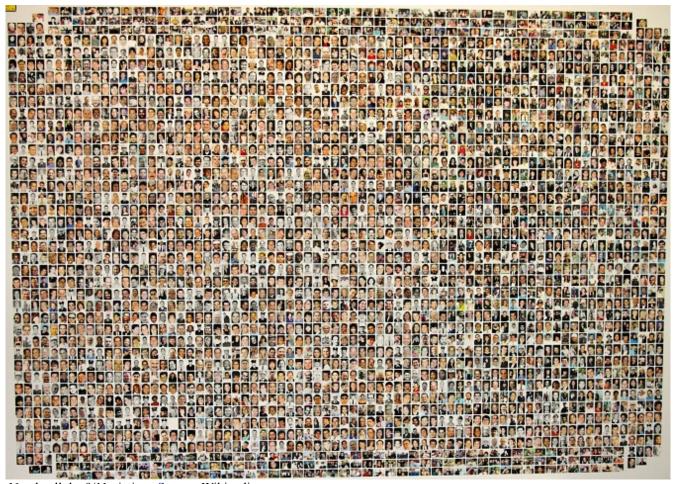
"Others joined in, shouting, 'Scoop and Dump! Scoop and Dump!"

- Langewiesche, Ibid., p. 166.

Despite the negative attitudes and name calling, positive steps were taken as a result of the meeting. Lee lelpi, "one of the most decorated firefighters in department history," lost his son Jonathan on 9/11. He took the chance to speak and "told of how he ha[d] been digging with his friends almost every day since September 11. [...] Lee suggested that the mayor remove the huge red crane that st[ood] in the middle of the site, gobbling debris in such large bites that it [was] impossible to spot the area for remains." (Smith, op cit., p. 353.) To have more firefighters was another request. The mayor, and therefore his DDC, complied.

Today if the question were asked: Who won "the fight between 'speed in debris removal' versus 'the civilized recovery of human remains," who would the "winner" be – the administrators or the workers? The "production" numbers were staggering, and seemed to close the case. By definition the managers were responsible.

On the other hand, many people did believe the search for human remains was rather intensive. That makes it all the more shocking that the building "collapses" disappeared more than one thousand people.



Nearly all the 9/11 victims. Source: Wikipedia.

# **Bodies**

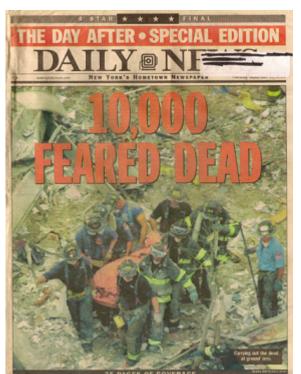
Apologies, because I - as the writer in Oregon - cannot truly know the losses felt and shared. For this book I had to title the chapter with the crude word "bodies," yet "body parts" would have been more accurate. (See for example NBC News on Sept. 13 at 8:49 a.m.) For some intimate portraits of grief, see the New York Times site (also from 2002). Also go to the 9/11 Memorial. So many memorials.

"[T]he mayor has acknowledged that specialists have told him that because of the great force of the collapse, many if not most of the bodies at Ground Zero have been disintegrated, or atomized. Certainly, every firefighter who has been at the site knows that there is not a piece of glass or marble to be seen anywhere, not a desk, a sink, or a doorknob. It is the virtually indestructible bunker clothes of the firefighters that have preserved their remains.... Of the 542 confirmed deaths at the World Trade Center, about 100 have been firefighters."

- Dennis Smith, Report from Ground Zero, op cit., p. 341. From his entry on Nov. 2.

Immediately, to try to mathematically quantify the scale of the attack in the face of such crippling emotion, the possible number of victims became a regular topic. The *NY Daily News* went as far as to decry "10,000 Feared Dead" on the 13<sup>th</sup>. On 9/11 a popular <u>TV news</u> comment was that about 50,000 people worked in the two towers. In reality, at 8:46 a.m. that number was **14,154**. (Jim Dwyer and Kevin Flynn, 102 Minutes: The Untold Story of the Fight to Survive inside the Twin Towers, Times Books, New York, 2005, p. 2.) The NIST put the

number of people present at **17,400** +/-1,200. (NIST Response to the World Trade Center Disaster, Part IV: Life Safety," 4/5/2005, p. 5.)



NY Daily News, 9/13/2001

As late as Sept. 21, the media overestimated the number of casualties as much as two times the actual final number. Another high reported number was "6,453 two weeks after the attacks." (Dennis Cauchon, "Not Found or Not Existing: 40 Names To Leave WTC Death Toll," USA Today, Oct. 29, 2003. See also Jennifer Steinhauer, "Giuliani Reports Sharp Increase in the Number of Those Listed as Missing," New York Times, Sept. 21, 2001.)

This was due in part to mistaken missing persons reports, name duplication, and fraud. "It will ultimately take old-fashioned police work to arrive at as near to a definitive number as possible, by sending detectives to interview next of kin, and rooting out mistakes and possible frauds." (Dennis Smith, op cit., p. 328) In his October 24 entry, Smith notes that the *New York Times* "unofficial tally of the missing and dead at Ground Zero, including the passengers on the two planes, [came] to about 2,950. This figure is 1,657 less than the number of victims that had been reported in the

previous day's official tally." (p. 327) Yet he reports a larger figure the next day, unknown source – 3,958 missing, and 506 confirmed dead. (p. 329)

In 2003 the City of New York reduced the death toll by 40 (from 2,792 to 2,752), due to fraudulent claims. ("New York Reduces 9/11 Death Toll by 40," CNN.com, Oct. 29, 2003; also Dennis Cauchon, Ibid., Oct. 29, 2003.) One example was a man claiming one of his children had gone to a fateful job interview in the trade center. Cyril Kendall was convicted of this crime, since he had received \$190,000 from the Red Cross and Safe Horizon after the lie. (CNN.com, Ibid.) A similar tale came from "Tania Head" (actually Alicia), who took no money, but instead told her fantastic lie for fame and attention. A Hong Kong man "Steven Chin Leung posed as a non-existent brother to try to obtain a death certificate for himself," by faking an email to pose as a Cantor Fitzgerald employee. Busted – 4 years in the slammer. (http://news.bbc.co.uk/...)

<editorial> If there were an ulterior political motive for the early, exaggerated victim numbers – say for example oil and gas in Afghanistan and Iraq by way of public outrage and support for war to increase military spending... or to go to Afghanistan and revitalize the recently Taliban-destroyed poppy crop and thereby surreptitiously gain hold of 80% of the world heroin market (Robert Steele, "CIA Clandestine Officer" in video – exaggerations weren't needed. As the mayor poignantly said, whatever the losses were, it was "more than any of us can bear." ("It's More Than Any of Us Can Bear," CBS News, Sept. 2001.)
Regarding motives, consider V.P. Dick Cheney, former Secretary of Defense and former CEO of Defense Dept. and oil rig contractor Halliburton. He resigned from the position claiming that "removed any conflict of interest." {Wikipedia} See how his stock soared in the following years of war in Iraq. Also, Dick has insisted upon having Secret Service protection extended beyond

traditional limits. (James Gordon Meek and Thomas M. Defrank, "President Barack Obama Authorizes Extended Secret Service Guard for Former VP Dick Cheney," <a href="nydailynews.com">nydailynews.com</a>, July 21, 2009.) Scared, Dick?</editorial>

A total of 2,753 human beings were killed as a direct result of the attacks on the towers, including the 147 victims in the two planes according to Wikipedia (not including terrorists). As of April 30, 2004 per the Office of the Chief Medical Examiner of New York City (OCME), of the AA Flight 11 total 87 dead (not including 5 terrorists), 52 were ID'd, 45 of those by DNA. UA Flight 175: 60 died (not including 5 terrorists), 27 ID'd, 26 by DNA. (Robert C. Shaler, Who They Were – Inside the World Trade Center DNA Story: The Unprecedented Effort To Identify the Missing, Free Press, 2005, p. 302) One gem of investigative journalism said, "USA TODAY documented 1,434 who died in the north tower vs. 599 in the south tower. (Locations could not be determined for 147 of the building occupants.)" (Dennis Cauchon, "For many on Sept. 11, survival was no accident," USA Today, 12/20/2001.)

As of June 2005 there were 19,915 remains recovered, with 1,591 out of 2,749 victims ID'd (1,294 of which were DNA ID's, 822 of those times DNA was the only method of ID. [Shaler, op cit., p. 320]) – numbers per Charles "Chuck" Hirsch, Chief Medical Examiner, the man "ultimately responsible for identifying those who died at the World Trade Center and for returning their remains to the families." (p. 340)

2,749 was the number of Death Certificates issued (stats as of 2004). Of those, 399 were issued with physical remains. 1,186 were death by Judicial Decree only. In 1,161 cases, identified remains were returned to families after the Judicial Decree. Recent news reported a new DNA identification June 2013, making the total *known* dead 1,636 (59% identified). The next month another ID was made on retested DNA. (See current.) May they rest in peace.

The WTC dust will have killed many more before it's all over. That is why Felicia Dunn-Jones (dead Feb. 10, 2002) was added to the list of victims in 2007, bringing the total to 2,750. (Anthony DePalma, "For the First Time, New York Links a Death to 9/11 Dust," New York Times, May 24, 2007.) Later the Sept. 11 Victims Compensation Fund – (FYI, quoting a 2011 Associated Press article "Congress created a \$2.78 billion fund late last year to compensate people who might have been sickened by exposure to trade center dust and ash and set aside \$1.5 billion to fund health programs for rescue and cleanup workers." [AP, Ibid.]) – Considering Felicia's case, the Fund agreed that "the disease was linked to the dust and awarded the family \$2.6 million." For a while in 2004 Hirsch said that conclusion lacked proof, since he thought some disease was already present in Felicia. In 2007 he changed his mind – and the Death Certificate – to say homicide. (AP, Ibid.)

July 10, 2008 another certificate was issued (not because of dust) for a man last seen Sept. 10, a doctor who had been added to the list of 9/11 dead at first, then removed in 2004 due to insufficient scientific proof. (AP, July 10, 2008)

Sept. 11, 2009, a 2,752<sup>nd</sup> name was read for the first time at the ceremonial 9/11 anniversary Ground Zero/Memorial name reading – Leon Heyward. Dust inhalation from the initial cloud was the cause of his slow death. (Lisa Foderaro, "9/11's Litany of Loss, Joined by Another Name," New York Times, Sept. 11, 2009.) Then July 17, 2011, victim 2,753 was added, the 3<sup>rd</sup> to list WTC dust as the murder weapon. See the chapter Dust, below.

Among the list from the World Trade Center were <u>658 from the firm Cantor Fitzgerald</u> (all <u>trapped</u> above the impact of the first plane), <u>343 from the Fire Department</u>, <u>37 Port Authority Police Department</u> officers, and <u>23 from the New York City Police Dept.</u>

The FDNY family loss was most tragic, considering "About 6 firefighters die in the line of duty annually, which would mean 228 had been killed since I [Dennis Smith] became a

firefighter in 1963." (Smith, op cit., p. 292.) The 343 included "46 lieutenants, 21 captains, and 23 chiefs, including the chief of department and the first deputy fire commissioner, 1 fire marshal, 2 paramedics, and 1 chaplain." (Ibid., p. 193.) Rev. Mychal Judge, seen being carried out of WTC 1 after Tower 2's collapse in the Naudet film as well as <u>a famous photo</u>, was listed as case DM-01-00001 at the Medical Examiner's Office, for the Disaster in Manhattan, in '01. (Dan Barry, "<u>At Morgue, Ceaselessly Sifting 9/11 Traces</u>," *New York Times*, July 14, 2002. See also Robert Shaler, p. 14.)

"606 children of firefighters were left fatherless." (Eisner, op cit., p. 63)

Thanks to their protective and distinctive clothing, nearly all of the firefighters remains were recovered and identified. Rick Hampson and Martha T. Moore list three families still waiting for remains in "Closure from 9/11 Elusive for Many," USA Today online, Sept. 4, 2003.) A fireman not listed there was ID'd as recently as July 2013, when his remains were retested using updated technology and matched to those of firefighter Jeffrey Walz. See the news announcement. In April 2013 we read: "Sally Regenhard, whose firefighter son, Christian, is among the more than 1,100 victims whose remains were never found, said it's proof the city gave up the search too soon," when a 9/11 plane part was found blocks from GZ. (Vera Chinese and Corky Siemaszko, "9/11 mom angered after Boeing confirms wreckage found near 'Ground Zero mosque' is from one of planes that brought down Twin Towers," nydailynews.com Apr. 29, 2013) Contradicting USA Today in 2011 FDNY's Lee lelpi said 128 of 343 firefighters were never found/identified. (Repeated in 2011 by WTC In Their Own Words, Harvey Eisner, Ed., Firehouse Magazine/Cygnus Business Media, 2011, p. 176.)

According to the Dennis Smith quote from November 2, more than 200 of the recoveries occurred after the 2 month mark. This fact goes far in describing the painstaking effort given to the search for human remains, in perhaps the most dangerous work site ever... for some physical symbol – no matter how small – to lay to rest in a proper burial. One WTC widow called this a basic human need, ... to escape what another widow called "the 'vanish factor:' not having anything tangible on which to focus the last goodbyes." (Eric Lipton and James Glanz, "DNA Science Pushed to the Limit In Identifying the Dead of Sept. 11," New York Times, Apr. 22, 2002.)

Dennis Smith noted that a large portion of firefighters' families were Catholic, "and the Catholic Church will not provide a funeral mass without a body or a body part." (Smith, op cit., p. 306.) For this reason many of the daily services ("as many as 15" on some days) for fallen FDNY were called "memorials." Quoting Eisner, "459 FDNY Funerals/Memorials were held after September 11, 2001" as of 2011. (op cit., p. 270) Another was held on June 17, 2016. Battalion Chief Lawrence T. Stack got his funeral mass because his wife had a vial of his blood from a 2000 donation. She couldn't wait for 9/11 remains any longer. (Michael Wilson, "A Funeral for a Fire Chief, 15 Years After He Died on 9/11," New York Times, 6/16/2016.)

"Michael Ragusa, is the only New York firefighter of the 343 killed that day who has not had a funeral or memorial service. His mother has said for nearly two years that there could be no funeral without something to bury." (Rick Hampson and Martha T. Moore, 2003, op cit.) The same article says she "reached a bitter conclusion about her son: 'He was incinerated.'"

TOM BEARDEN: 'Of the 2,823 people who lost their lives at the site, 1,796 have never been accounted for. Even though recovery at the site has now concluded, officials plan to continue sifting through debris that has been shipped to a landfill, hoping to identify additional remains through DNA testing. Monica Iken's husband, Michael, is one of the missing. He was a bond trader on the 84th floor of tower two.' MONICA IKEN: 'It's very difficult for me right now, because I don't have any remains, and I had hoped that I would get something back even if it was bone fragment, just to know that he didn't go 'poof'

one day. You know, he got up and went to work and went 'poof.' Where is he? And the... it just brings me back to 9/11. It makes me realize that he's not coming home. 9/11, I knew he wasn't coming home, and now he's really not coming home." - PBS "Newshour" May 30, 2002 (The "last" day of work at the site.)

"When they were finding people. Every time they carried someone out, everything stopped. Every machine stopped on the site.

"What happened first was this: If you were digging a person out, the chaplain would come there to whatever spot you found them. They would do a little ceremony there, just the guys, and then they would line everybody up. A lot of times they waited for a fire company to show up or a family member.

"A lot of times, if they knew there were other people there, if they knew there was another body, they would bring one to a waiting area at the bottom of the ramp and they would wait until the second recovery or the third recovery was made and then they would take them all out together up the ramp. So we would all line up on the ramp and they would call over the handie-talkie, the chaplain would do another little service at the bottom of the ramp and then uncover and they do the service over the handie-talkie and recover and hand salute. Then they would carry them up to the top of the ramp and put them in an ambulance that was waiting and then you'd finish your salute and then we were dismissed." - Firefighter Declan Grant, Ladder 48 in Eisner, Ibid., pp. 232-233.

About 11:30 pm. on December 11, 2001 Brendan lelpi (Ladder 157, FDNY) got the urge to drive to Great Neck and visit his dad's house. His dad Lee lelpi was **Special Operations Company** Rescue 2, FDNY, and Chief of Dept. at Great Neck Vigilant Fire Department. Comforting his dad would help him, too, after the loss of his older brother Jonathan (FDNY Squad 288). Lee lelpi had searched the pit countless hours for his son Jon, all the while recovering other firemen and civilians, but personally to no avail. When Brendan got to the house, Lee wondered how he knew to come over, because Lee just minutes before had got the phone



Three flag-covered heroes going home. Date unknown. Still image from "America Rebuilds: A Year at Ground Zero" at vrt 18:25

call – that they had found Jonathan at Ground Zero. So they went down there. Brendan recalls:

"All the guys were lined up already, like they do for every guy. They line all the guys up and they salute them, when they bring the body up. And when we walked down they saluted my father on the way down. That was something that touched me. I know it touched him. I've never seen that down there before, how they saluted him on the way down. When we got down there, and he was in the Stokes [stretcher], he had the flag on him, covered up already. – See the smile on my dad's face – he got on his knee and patted him on the back and said 'We gotcha buddy. We got ya.' And to smile for something that - that horrible.... It really doesn't make a lot of sense – that was, probably the greatest day of my life, being able to carry him up the hill." - "Report from Ground Zero," based on the book by Dennis Smith, a film by Greengrass Productions, 2002. The story above is told at about 1:26:00



hereisnewyork.org photo 0293, NIST FOIA 09-42 911datasets.org release 31 More like this in App. 2.

### **MISSING**

In the days after 9/11, hundreds of worried family members wandered the city visiting hospitals, carrying pictures of their loved ones. Desperate 8 ½ by 11-inch posters soon painted the city with grief. To accommodate the bereaved crowds, a Family Assistance Center was set up September 17th at Pier 94, where victims brought DNA-laced items like razors and toothbrushes, along with dental records (Martin Mbugua and Dave Goldiner, "Grieving Kin Continue to Wait for Word of Missing," nydailynews.com, Sept. 18, 2001). Earlier, on Wednesday September 12<sup>th</sup>, "a temporary collection spot" was set up at New York University Medical School (NYU Medical Center next to the Office of the Chief Medical Examiner of New York [OCME] headquarters building). (Shaler, op cit., pp. 52, 144.) "Then at an armory on 26<sup>th</sup> Street, and finally at Pier 94 on the west side of Manhattan." (Ibid., p. 144) On 9/13 police "wrested control of the entire Family Assistance Center operation" (p. 54) away from OCME, who feared NYPD wasn't qualified. More specifically "the New York City Police Department's procedures were the genesis of a nightmare." (Ibid., p. 52) Errors would occur.

"Grieving family members were filling out a seven-page questionnaire by hand and supplying a photograph of a missing person." (Ibid.) See "Lessons Learned From 9/11: DNA Identification in Mass Fatality Incidents," U.S. Department of Justice Office of Justice Programs, Sept. 2006 – especially Appendices B, C, and D. The Victim Identification Profile questionnaire was designed by Disaster Mortuary Operational Response Team, DMORT (Shaler, p. 144), "a group funded by FEMA" (p. 35) who worked in the OCME lab "for two

twelve-hour shifts each day," and were "terrific." FEMA's DMORT stayed until May 2002. (p. 36) Learn more about DMORT in <u>Amy Mundorff's thesis</u>, (PDF 13 MB) "Human Identification Following The World Trade Center Disaster: Assessing Management Practices For Highly Fragmented and Commingled Human Remains," 2009.

The methods of NYPD data management early in the effort left Shaler and crew wanting (pp. 52-55), with nothing being tracked electronically. "Some samples were not labeled properly and thus could not be used." (p. 187) The DNA lab scientists had many concerns with computer software (pp. 110, 116, 120, 183, etc.) for comparing various data sets – some then on *paper* that needed to be entered by human hands on keyboards, as well as some data from different types of DNA tests, because with the badly decomposed DNA, one test often wasn't enough to satisfy the recommended statistical probability to officially make an ID (See a few paragraphs below, KADAP). Tattoos, jewelry, X-rays... any and all info could be cross checked during the identification process.

All of this work of course transpired for the families, many of whom needed a detailed explanation of the ID process, or just more assurance. Shaler helped them directly face to face when the NYPD or DMORT struggled. Many families were frustrated, mostly from rumors or "misinformation from the print and broadcast media." (p. 141) Among the OEM, the DDC, and the Mayor's office – those supposedly managing the operation – nobody could help. Some families only asked *why* hadn't their loved one been found? Could they be lost <u>at Fresh Kills</u>, to the birds? This fear was expressed to Shaler by victim's families. (Ibid.)

It was a cold fact that there were very few "whole" bodies found – 293 total. (p. 320)

According to the Medical Examiner's Office July 26, 2004, there were 526 IDs by dental X-rays. It's best we don't know how many heads were recovered with the teeth. Note 98 times the dental ID was the only method, plus 428 ID'd also by other "multiple modalities" such as DNA (single modality: 822; DNA with multiple: 472). There were at least 268 fingers, who knows how many attached to hands and arms, used to obtain that many fingerprint IDs. (single modality: 52; with multiple: 216) Tattoos were used to ID six times alone. (p. 320)

No DNA identifications had been made until October 19, the "first real match." (p. 123) By Oct. 31 there had been 10 DNA identifications of the 193 total ID'd, the 8,655 remains recovered, and 3,354 personal effects (razors, tooth/hairbrushes of the deceased) at the NY State Police. (p. 112) By Nov. 30: 55 DNA IDs, 10,055 remains received; 3,429 personal effects at the police. (p. 136) By Dec. 31: 99 DNA IDs; 12,360 remains recovered. Jan. 31, 2002: 666 Missing ID'd and 132 DNA IDs. By Feb. 25: 741 Missing ID'd and 146 DNA Ids....

"We really did not begin making steady direct identifications – matching World Trade Center site DNA profiles to personal effects – until Howard Cash [president, Gene Codes Forensics] delivered the first version of MFISys on December 13." (Ibid., p. 170) A story on genomeweb.com tells us that "M-FISys [Mass Fatality Identification System, pronounced emphasis] was developed by Gene Codes in the months following the Sept. 11, 2001, tragedy under a \$10 million contract with New York City's OCME [Office of the Chief Medical Examiner]. According to the city, that amount was later increased to \$13 million." (Uduak Grace Thomas, "Gene Codes Sues New York Over 9/11 Victim ID Software; City Countersues, Calls for Dismissal," genomeweb.com, Nov. 5, 2010.) Dan Barry of the NY Times reported in July 2002 the cost of \$24 million. (Ibid.) MFISys helped combine the up to "nine software packages" being used by OCME at one point, "five of which were directly related to DNA." (Shaler, op cit., p. 183)

Victims' families supplied personal effects with DNA of the victim, but also DNA from any next of kin was needed to help make DNA matches. These DNA samples included



Sept. 17 recovery (from 911datasets.org\NIST\_FOIA\_12-057\_Feb\_07\_2012\..\WTCI-62-FEMA\NYC-OEM-WTC Disk 2)

mouth/cheek swabs mostly (buccal swabs), referred to as "kinship swabs." (p. 121, etc.) Shaler mentioned "many of the samples they [NYPD] collected were inappropriate. For them, it was mission impossible!" (p. 54) Did they draw blood? Given the circumstances of their pain from losing comrades and the "chaos of the time," Shaler said afterward, he understood and commended NYPD. (p. 55) The New York State Police DNA lab in Albany worked on STR profiling the family samples. WTC remains were handled elsewhere. (p. 57, etc.)

"More than 5,000 cheek swabs have been taken from blood relatives, and more than 15,000 personal articles have been collected. Some items, like a victim's teddy bear or pillow case, have been of no value, while others - including 1,400 toothbrushes, 140 razors and 126 hairbrushes - have yielded valuable DNA." - Dan Barry, *New York Times*, op cit.

In all there were 6 DNA laboratories working on the WTC project; 7 if you include the important research of Dr. John Butler at NIST. (see his book <u>Forensic DNA Typing: Biology, Technology, and Genetics of STR Markers</u>, 2001) that was written outside the NIST WTC investigation. Beyond these 7, an entire field of experts gathered by the <u>National Institute of Justice</u> convened on a regular basis to hear about the ID work, and to discuss: the Kinship and Data Analysis Panel (KADAP). Read their detailed <u>recommendations document</u> at massfatality.dna.gov.

Myriad Genetics Laboratory "operate[d] a state-of-the-art robotic format for its STR DNA testing." (p. 58) Beginning the job with them meant OCME had to *carefully* transfer prepared remains from their 1.5mL tubes to Myriad's 96-section microtiter plates. (p. 99) STR

(Short Tandem Repeat) was/is the standard DNA test on samples prepared by OCME – yet "From the World Trade Center data I was receiving from Bode, Myriad, and our in-house work, a large percentage of the [WTC] samples were giving little or no STR data." (p. 132)... "[O]nly about half of the samples were giving usable STR results because of the extreme damage done to the remains in the building collapses and subsequent fire. Eventually, the number of DMs giving borderline STR results would exceed 60 percent." (p. 114) Myriad would also do profiles for the State Police lab in Albany, of personal effects, antemortem DNA. (p. 170.)

The Bode Technology Group (Springfield, Virginia) handled bones. (Eve Conant, "Remains of the Day," Newsweek, Jan. 12, 2009 [mirror]). Not usually, but they could do it, they promised. Shaler relates when Oct. 8, Tom Bode's evidence clerk drove from Virginia to the NYC OCME to pick up "approximately two thousand bones." Shaler immediately says "they delivered on their promise." (Shaler, p. 65) By mid-January, 2002, "Bode had received 7,120 bones. ... Sadly, only 2,014 samples, less than 4 percent, yielded a sufficient STR profile to make an identification." Each of those IDs made all the work worthwhile. (Coincidentally, Bode was acquired by ChoicePoint in early 2001, the latter of which 9/11 profiteer [think PNAC/Deputy Secretary of State under Colin Powell] Richard Armitage was a director. See Another Nineteen: Investigating Legitimate 9/11 Suspects by Kevin Robert Ryan, Microbloom, 2013, p. 40, found in App. 3.)

Celera Genomics of Salt Lake City apparently "leaked to the print media that it would have a significant role in the [WTC] work" (p. 122), after Shaler had unofficially invited them. Celera and sister company Applied Biosystems began in Sept. 2001, planning to work with mitochondrial DNA. "Nine months later, I was still waiting for the Celera promise." ... "their mtDNA effort had become a monumental project and was, at best, complicated." (p. 230) They did help, though.

Orchid Cellmark in Dallas Texas worked with SNPs, single nucleotide polymorphisms. Shaler called these variations of "the base pair, the rung of the ladder" ... the ladder being a DNA molecule. (Shaler, Ibid., p. 130-133). Of these SNPs, "there are literally thousands," so comparing them made sense. But by using



"The restaurant, the World Financial Center became the impromptu morgue. And the body parts and body fragments were placed in these red bags and they were loaded onto a refrigerated truck. [...] The police were just throwing these red bags into the truck. The red bags were piled up, up the sides of the walls of the restaurant." - Dr. Robert Lahita

them to make identifications Shaler "was wading into uncharted waters." (p. 264) For DMs (remains) with partial STR profiles, though, SNPs (like a mitotype from mtDNA [p. 233]) could add the required statistics to make a possible match a clear match. "On December 11, 2003, we had our first SNP identification." (p. 260)

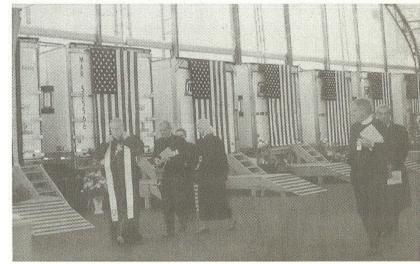
Rewind to the beginning of the process. When making a recovery, the possession of the remains had to follow the chain of custody documentation procedure known in all matters of evidence as accession, ending with the Office of the Chief Medical Examiner of New York (OCME), home of the Morgue. Right? Or was there too much gore and resultant chaos to prove on paper who brought what from where and when? After all, as news media has told us, 30,000 body [part] bags were shipped to NYC. (AP Archive) About 10,000 too many.

See the OCME 2015 stats and webpage memorial. Doctor Robert C. Shaler was

Director of the Forensic Biology Department, a.k.a. the DNA lab, at OCME (retired 2005).

"Refrigerated tractor trailers from UPS, Ben & Jerry's, and other companies began arriving on 9/12. Shiya [Ribowski] segregated them on 30<sup>th</sup> Street into preprocessing and postprocessing stations;

'processing' refers to the autopsy. At one point, tractor trailers formed a line on Second Avenue from 30th Street to 38th Street. Eventually, they lined both sides of 30th Street between First Avenue and the FDR Drive. . . . The Department of Transportation paved the area and the sixteen tractor trailers were lined up, eight on a side, their back ends facing each other. Eventually, on October 11, the trailers were covered by a large white tent. . . . The area at the FDR end of 30<sup>th</sup> Street became known as Memorial Park." - Robert C. Shaler, Who They Were – Inside the World Trade Center DNA Story: The Unprecedented Effort To Identify the Missing, Free Press, 2005, pp. 13-14.



The refrigerated trailers at Memorial Park the day Cardinal Egan came to bless them. (Photo by Carole Meyers)

from Robert Shaler, op cit., p. 331 (<u>See Memorial Park</u>, 2013) Remains are preserved at the <u>WTC Repository</u>, at bedrock level between the tower pools.

The identification effort's "first major error" surfaced in April 2002. A bad ID had led to a delivery of incorrect remains to a family back in November. The personal effects matched to remains had actually been from a second victim whose effects were mixed together at Pier 94. That is not to blame the NYPD. Mistakes happen. The error was found when cross-checked numbers caught the eye of quality assurance. (p. 152) Thanks to Mike Hennessey of Gene Codes Forensics for developing the <u>Administrative Review Process</u> while working at the OCME DNA ID unit. (Click above link for Hennessey's informative PDF document.)

Another problem came when working on an ID in April 2004, due to lack of proper documentation at a Family Assistance Center – confusion about who brought in the toothbrush. (p. 295) Imagine having to tell somebody she/he had received the wrong human's remains. Doing this one time, traveling to the Dominican Republic to re-recover the remains, OCME's Shiya Ribowsky got thanked for the effort with spit in his face. (p. 161)

CBS News' Scott Pelley reporting on scene at New York University Hospital with two ER doctors asked them, "Where are all the people?" (CBS News Sept. 12, 9:03 p.m.) One of the doctors mentioned after about noon (on 9/11), people stopped coming in with any injuries. Similarly NBC News (Sept. 13 at 8:49 a.m.) observed that EMTs (Emergency Medical Technicians) and doctors waited on the sidelines with nothing to do. There were "body parts instead of bodies."

Much worse, <u>firefighters thought people were part of the dust</u> (FDNY interviews in "Collateral Damages" [<u>mirror</u>] ["This is people," one said.]). See <u>this rare glimpse of Ground Zero</u>, likely shot in early October 2001, where firefighters sift through buckets of dust for remains or clues. (Source: International Center for 9/11 Studies NIST FOIA, 911datasets.org release 10, WTCI-30-NYC Pt6of6.wmv [<u>download</u> 1.3 GB]) "We had a sifter. They were

pouring buckets of dirt into that sifter, sorting it out, finding a lot of bone fragments in there." (Firefighter Mike Fenick, Ladder 48 in Harvey Eisner, Ed., <u>WTC In Their Own Words</u>, op cit., p. 245)

"A serious week-long search and we've found 200 [bodies] in a pile of 5,000? What's going on? Where is everyone? Why aren't we finding more bodies? Cause it's all vaporized – turned to dust. We're breathing people in that dust." - Brooklyn firefighter, from Christopher Ketcham, "A Season in Hell," salon.com, Sept. 19, 2001.

This seemed like an illogical conclusion based on the fact that a building collapse would not have incinerated/cremated the remains; nor would the fires on the upper floors. Certainly the underground fires contributed, but could they claim full responsibility for the cremations? (see "Molten Steel and Extreme Temperatures at the WTC" by this author).

Time Magazine online made the statement that "so much of the Trade Center ended up as ash, incinerated."

Jim Hoffman in his article/webpage "Missing Bodies: More Than 1000 Bodies Are Unaccounted for," wrote in his opinion:



Ground Zero, April 2, 2002. Source: Time.com.

"The aircraft impacts and fires in all probability would not have destroyed a single body beyond positive identification. Nor have building collapses ever been known to destroy human remains beyond recognition. However, the buildings were destroyed in a manner that converted most of their non-metallic contents to homogeneous dust, including the bodies. This destruction of the bodies assured that no exact determination could ever be made regarding who was piloting the jets at impact, and the condition of the people on board."

WTC dust expert Dr. Paul Lioy said the dust contained "everything we consider near and dear to us." (<u>Dust: The Inside Story of Its Role in the September 11<sup>th</sup> Aftermath</u>, op cit., p. 93.) A *New York Times* article commented, "Everything we hold dear' also includes the essence of those who died in the collapse; Dr. Lioy talks about it with reluctance. When pressed, he says minute amounts of organic material are probably mixed with the dust." (Anthony DePalma, "<u>What Happened to That Cloud of Dust?</u>," Nov. 2, 2005.) Granted, Lioy was correct in saying that the percentage of human remains per unit mass of debris was tiny. "Furthermore, over the twenty-five years of WTC occupancy, there would [have been] hair follicles from thousands of occupants and even more from visitors to the WTC Towers present in the rugs that were crushed during the collapse." (Lioy, Ibid., p. 44.) This meant a comprehensive DNA scan of the dust (if that were possible) would have yielded thousands of false positives instead of guaranteed true 9/11 victims.

First responders, firefighters, cops, and construction/iron workers, in some cases family members – they did a comprehensive scan of the site for remains – before the massive debris removal machines and their 50-foot rules for "safety." (See details in "NYC DDC" section.)

Flash back to a meeting between firefighters' families and city officials, organized in protest of the excessive November 2001 safety restrictions at the site. "[F]amilies spoke about their need to find remains. The medical examiner answered bluntly that many of the bodies disintegrated in the terror attack." (Jennifer Steinhauer, "Ex-Firefighter's Quiet Plea Ends Conflict Over Staffing," New York Times, Nov. 17, 2001.)

"Shaler and the other New York pathologists [a staff of 105 scientists] sent some of the most damaged human fragments to private forensics labs that specialize in advanced DNA-retrieval techniques. One was the Bode lab in Lorton, Va., which is known for extracting genetic material from bones. The New York team gave the lab a seemingly impossible challenge: to identify 12,000 burnt bone fragments. The bones 'had been burning in the rubble at extreme temperatures,' says Mike Cariola, the lab's director, 'and we were only getting DNA samples on half the ones we tested.' Cariola recalls that 'some pieces of bone were so charred that if you held it with two fingers it would disintegrate.'" - Eve Conant, "Remains of the Day," Newsweek, Jan. 12, 2009 (mirror).

Was that out of the 14,000 bones total given earlier? (Shaler, op cit., p. 63)

Dr. Shaler, who basically led the identification effort, said that the "DNA in the bodies" of WTC victims "was in pretty bad shape. These bones were exposed to extreme temperatures." (Anna Mulrine, "Identifying the Victims of September 11," US News and World Report, Dec. 5, 2005. See also <a href="https://district.nic.org">historycommons.org</a>.) Shaler described some destroyed bones as "white cremains," as in <a href="mass-example-state-unit-mass-example-s

What percentage of bones were destroyed in this manner? Shaler notes in his book that "By the end of the first week, we had only 3 bones. On September 30, we had 631, and by October 8, we had 1,241, nearly double in eight days." (p. 61) Also by Oct. 8 OCME "had 3,038 muscle specimens in-house." (p. 62) Final count of bones received "would approach 14,000." (p. 63) This included any found at Fresh Kills Landfill.

The Fresh Kills slideshow in "Collateral Damages" reported that over the period of nine months of intensive sifting, raking, and searching conveyor belts of moving debris on Staten Island, there were 4,257 [supposed] human remains found. However, some of these were found by anthropologists to be nonhuman remains, likely after December 31, 2001, when they stopped going to Fresh Kills for that purpose. "Nearly 2,500" nonhuman remains came from Fresh Kills, and were discarded at the OCME before DNA testing. (Amy Mundorff, op cit. PDF 13 MB)



Fresh Kills, Staten Island on Sept. 18, NYPD photo, <u>Above Hallowed Ground</u>, p. 131 (See a <u>Sept. 23 photo</u>)

400 of these helped identify people by

DNA analysis. All remains were taken to the morgue/Office of the Chief Medical Examiner at 1<sup>st</sup> Ave. and E. 30<sup>th</sup> Street for examination in an "open-air bay," then under a busy white tent. (Dan Barry, op cit.)

See "Fresh Kills" above, also "Recycle." To sum up, Mike Hennessey from Gene Codes Forensics, who worked at the OCME DNA lab and in fact "devised the administrative review process," (Shaler, Ibid., p. 340) reported after his October visit to Fresh Kills that their "process itself allowed the possibility that remains might be missed." (Ibid., p. 147) This is still a sore wound for many families.

It is important to remember the dedication of those searching in the rubble, including those also hampered by the need for speed at Fresh Kills. Again, see section above, NYC DDC, from which I'll copy and paste: wtclivinghistory.org: "[T]he fight between 'speed in debris removal' versus 'the civilized recovery of human remains' embodied the one over-arching and driving conflict that both separated us from the external administrators and joined us (in our 8 perspectives that actually did the work at Ground Zero) into a common goal." Those 8 were "construction, iron workers, engineering, supply and logistics, NYPD/ESU [Emergency Service Unit], PAPD [Port Authority Police Dept.], FDNY victims' family members and workers in recovery." Speed in debris removal was a force from the "external administrators."

Again, those administrators worked for the city's DDC – Kenneth Holden and Michael Burton. As an October 31 CBS program noted, "Holden is under pressure to get the job done." (60 Minutes II, "Under Ground Zero" - Watch it here on YouTube [911datasets.org release 25, 42A0140 –

G25D56], where Dan Rather says "enormous pressure.")

An unknown percentage of the time, when a body or body part was found at Ground Zero, the spot was marked and noted. ("America Rebuilds," Ibid. [mirror]) See the grid used for this purpose (source: OEM-EMDC FOIA,

1430\_pa\_groundzero.pdf, or see Shaler's book, p. 278, image included below in Appendix 2.) Due to handheld GPS equipment issues ["interference" according to the MCEER document, Ibid., p. 12.] the fancy system was not always possible. The GPS system was "not much use" according to mapping



NYPD photo, from <u>Above Hallowed Ground: A Photographic Record of September 11, 2001 by Photographers of the New York City Police Department, Viking/Penguin, 2002, p. 157.</u>

expert Dr. Sean Ahearn (WTC: Rise and Fall of an American Icon at 1:07:06.) A Dec. 2001 SatNav News article touted its successes during recoveries, for one. I haven't seen any photos of FDNY using high-tech scanners, although Firefighter Nick Giordano of Rescue 3 Special Operations Command did say "GPS started going really hot about 2 weeks into the operation, and then after that, everything was GPS." (Eisner, op cit., p. 200) Also Firefighter Declan Grant, Ladder 48 attests that they put a piece of 2-inch long bone "in a red bag and they would GPS where they found it and EMS would come and take it away." (Ibid., p. 233)

While not 100 percent complete or detailed specifically, a <u>document</u> with pinned recovery locations has been retrieved showing progress as of November 6, 2001 – which includes various other items. (<u>Source</u>: Independent FOIA) The <u>final version of victim location documentation</u> was created by the FDNY Phoenix Unit and the EMDC (See <u>App. 2</u>). (<u>Source</u>: FOIA) Yet "FDNY did not begin collecting grid data until sometime in October 2001." (Shaler, op cit., p. 277) In at least one case Shaler used a victim's "grid number" in the ID effort. (p. 306) **All the recovery grid data and GPS coordinates** including related info gathered at Ground Zero was obtained recently (2012) by researcher David Cole (FOIA 12-073). It took the form of an <u>Excel spreadsheet</u>, which I've converted into a <u>101-page PDF here</u>.

Of course many weren't searching so much as they were pulling things, cutting them out of the way. For most the job was 12-hours a day, 7 days a week. Remains were recovered because of these people. By these people, to their dismay. One ironworker, who incidentally helped erect the towers, left the site on Sept. 20 because he "just couldn't take it." It reminded him of the Vietnam War.

"One particular day they found a woman, all right. Parts of her. I don't even know if I want to tell you – they found a woman and I just couldn't take it, you know. Too much devastation. Too much death. When you see a body bag that's not even full, you know. You see a body bag and it falls in the middle. So... It was just too much for me."

- Paul Gaulden in the film Metal of Honor, op cit.

Much respect to Paul and all others who worked there.

According to a 2005 ABC News story, 57 percent of the victims had been ID'd – using DNA, dental records, or objects identifiable by family members like jewelry. (Bill Blakemore, "Forensic Identification of 9/11 Victims Ends -- More Than 1,000 Victims Unidentified Due to Technological Limits," Feb. 23, 2005.) Considering the "incredibly difficult task" presented by "the violence of the collapse and the intense heat of the fires" (as the ABC story says), that percentage was remarkable. Of course, if you take into consideration the speed with which the debris was removed, it is more than remarkable.

"By then a month had gone by since the attack, and twenty-eight days had passed without a single victim's being found alive. The sense of urgency remained strong, but people knew what they began privately to express – that the effort now would amount only to a search for the dead. It was going to be sad, frustrating work, and all the more disheartening because **it was obvious that many of the victims had been obliterated without a trace, atomized by the collapses or cremated in the infernos that ensued.** Indeed, by the end of the unbuilding and recovery effort, in summer 2002, fewer than half of the people presumed killed had been found and identified – and many of those only through the most ambitious program of DNA matching ever attempted in the United States."

- William Langewiesche, Ibid., p. 131 [emphasis added]

Learn more about the ID process in "9/11: Ground Zero Underworld" at 20:00 and 25:00, as "head of 9/11 identifications" Shiya Ribowsky was interviewed ("medical examiner's deputy director of investigations" according to USA Today). Of Medicolegal Investigations, that is. As seen above, Shiya "had the unenviable responsibility of notifying the families and rectifying misidentifications." (Shaler, op cit., p. 161) To explain the apparent lack of remains to victims' families, he imagined the towers' collapses not unlike giant kitchen blenders. Robert Shaler compared a mortar and pestle.

"Chief liason" from the Medical Examiner's Office in Manhattan, David Schomburg, appeared in Langewiesche's <u>American Ground</u>, pages 136-140 (Director of Medicolegal

investigations according to Dan Barry, "<u>At Morgue, Ceaselessly Sifting 9/11 Traces,</u>" *New York Times*, July 14, 2002 and per Robert Shaler, p. 343.). In response to the difficulty finding human remains, Schomburg stressed the grim reality of decomposition. (This is the same man mentioned by Steinhauer/*NY Times* above, with the word "disintegrated" in quotes.)

The smell of death, decomposing flesh, was pervasive at the site, as FDNY survivor Mickey Kross described in "9/11: Ground Zero Underworld" at 28:15. His cigarettes did not help him cover the smell. In Report from Ground Zero, (book not video) Dennis Smith mentions the olfactory sense. "Earlier in the search effort we needed the dogs to determine if there was evidence of a human being, but now, after ten days, the bodies have begun to deteriorate and the odor is unmistakable. It is a harder smell than sulfuric acid and ammonia mixed together, a human smell that few humans know." (Smith, p. 227.) Doctor Robert Lahita remembered: "The smell of death, the stench.... was overwhelming. It was like a cloud. I would much have preferred the acrid smell of smoke to the smell of the dead bodies." (July 2002, hereisnewyorkv911.org) FDNY Ladder 48 Firefighter Mike Fenick said, "When you found a body, usually you could smell it. You would also get a lot of smells and there would be nothing around. If you got by a body, you were going to smell it first." (Eisner, p. .245)

"We smelled it first and then we went in with hand tools and dug it out. The grappler would take a couple of scoops. Someone watched what he was pulling up and what he was dumping out in case you'd see something. A lot of times, you'd see a flash of the yellow striping on the gear. Most of the time, the grappler saw it before you did. Then he'd point and you would look through what he had. He may have seen something. Or once you got an odor, you'd stop him and you'd start hand digging." - Firefighter Declan Grant, Ladder 48 in Eisner, WTC In Their Own Words, Ibid., p. 232.

Cadaver dogs were employed early in the effort. Take for example the way FDNY <u>Chief of Department Pete Ganci</u> was found – despite being buried in rubble – on Sept. 12, according to firefighter T. J. Mundy of Engine 36 in Report from Ground Zero, pp. 111-12. After digging and prying for more than an hour and becoming uncertain of the dog's signal, Mundy and others uncovered Ganci.

Watch a tribute video by firefighter photographer Lou Angeli, "Ground Zero K9," and another with more footage from Ground Zero, featuring K9 hero Riley. Captions for



From the film "WTC: The First 24 Hours," E. Sauret. I found many images of dogs in action, but one on a zip line gets a link here.

some NYPD photos in <u>Above Hallowed Ground: A Photographic Record of September 11, 2001</u>, (Christopher Sweet, ed., Viking/Penguin, 2002, p. 147) tell us "Some dogs needed paw pads to walk over the jagged terrain, but most of the dogs didn't like using them." Never mind areas so hot that the soles of men's <u>boots were melting</u>. Veterinarians on site did what they could, but "[m]ore than one [rescue dog] suffered serious injuries and at least three died while working at Ground Zero." ("SH&E at Ground Zero," Jeffrey W. Vincoli, Norman H. Black and Stewart C. Burkhammer) By Sept. 17 at least one had died of "heat exhaustion" <u>according to CNN</u> at 12:57 am – a Coast Guard dog according to NBC (WRC) at 1:05 am on 9/17. By

2004 at least 14 rescue dogs had died – sorry no specific cause(s) of death there, but the figure comes from a <u>presentation on the toxins of Ground Zero</u>. About 300 search and rescue dogs were employed over the course of the effort. ("12th Anniversary Of 9/11 High-lights Legacy Of Search And Rescue Dogs," <u>CBS Chicago</u>, 9/15/2013.) They were determined to find their people. "After September 12, no one was found alive, and the dogs were distressed not to locate survivors. It became necessary to stage situations where "survivors" were found by the dogs to keep up their morale." (Sweet, p. 146)

Nan Walton, author of "Partners-Everyday Working Dogs Being Heroes Every Day," quote: "trained with several of the dogs dispatched to New York after 9/11. " Nan said, "Most of the dogs who went to ground zero were **trained to search in rubble piles and what was left at Ground Zero were dust piles.**" She said, "Everything was so blown apart and the odor of death was all over and just it made the dogs almost crazy." (CBS Chicago, op cit., emphasis added.) Another K9 story comes from Mark Bogush and his black lab Marley.

Articles over the years count the unidentified: Robert F. Worth, "800 Victims May Not Be Identified, City Says," New York Times, 7/13/2002. We now know that 800 not found was too hopeful of a figure. An April 6, 2006 article said "the remains of 1,151 have never been identified." (Jim Dwyer, "Pieces of Bone Are Found on Building at 9/11 Site," New York Times.) In 2009 the number was revised: 1,624 victims identified and 1,129 not. ("Medical Examiner Identifies Another WTC Victim," ny1.com, 4/2/2009.) One report mentions new DNA extraction methods. (Peter N. Spencer, "Sifting at Fresh Kills Yields 20 Potential Human Remains From 9/11," silive.com, 4/8/2010.) Even more recent figures from ABC News said 1,630 victims have been identified, or 1,105 not. (Russell Goldman, "World Trade Center: 1,630<sup>th</sup> Victim Identified Since 9/11," ABC News, 5/12/2011.) Others with more recent numbers include Mariano Andrade, "Scientists Still Struggle To Identify 9/11 Remains," AFP, 8/26/2011. Currently 1,113 have not been identified, per the OCME website... or 40%.

Out of the 20,000-some body parts recovered, "almost half" were ID'd, according to Shiya Ribowsky in "9/11: Ground Zero Underworld" (2007) at 43:20. "[F]or one victim, nearly 200 pieces have been identified, while for others, there was a single shard of bone." (Dan Barry, op cit.) Having been involved in the intense effort, Ribowsky displayed a confidence of success in the ID process. Of course he *was* on TV.

"I'll be disappointed if we have fewer than that,' Dr. Charles S. Hirsch, the city's chief medical examiner, said of the estimate of 2,000 [people's] identified remains." (Robert F. Worth, *New York Times*, op cit..) Note that Hirsch was disappointed. That target number was not reached. The next sentence in the article: "There are a number of people who are gone without a trace." (Worth, <a href="Ibid">Ibid</a>.) Dan Barry of the *Times* also came to the conclusion that "hundreds died without leaving a trace." ("At Morgue, Ceaselessly Sifting 9/11 Traces," *New York Times*, July 14, 2002.)

The grim statistic came again in my reading: A total of 293 "nearly whole bodies" were discovered, all before the barge/truck ride to Staten Island. In all, 19,693 body parts were found during the recovery effort (Langewiesche, op cit., p. 135.) – 21,817 some 10 years later. (Mariano Andrade, op cit., AFP, Aug. 26, 2011.)

More remains were found 5 years after 9/11, on at least three different occasions. See Jim Dwyer, "Pieces of Bone Are Found on Building at 9/11 Site," New York Times, April 6, 2006. Seventy-four bone fragments were found on the roof of a neighboring building, 130 Liberty Street, several hundred feet below the top floors of the towers. Six months later "utility workers discovered bone fragments and personal effects in an abandoned manhole on Oct. 19 [2006]." The article went on to say "most of the 900-plus bone fragments" found in 2006

were "mere shards, smaller than the diameter of a quarter." (Skye H. McFarlane, "W.T.C. Remains Search Splits Community Board," Downtown Express, Nov. 24-30, 2006.) These well-publicized finds revitalized a search effort that soon unearthed even more human remains. See "More Human Remains Found At Ground Zero," CBS News/AP, Oct. 2006. Using these 2006 remains, at least one victim was identified. ("Medical Examiner Identifies Another WTC Victim," ny1.com, April 2, 2009.) Peter Spencer of silive.com said that after these finds a sifting operation lasting 2 years resulted in 25 more identifications.

In February 2010 it was announced that six or seven truckloads of debris from the WTC construction site and surrounding areas was being taken to Fresh Kills for a search funded with \$1.4 million. (Judy L. Randall, "Debris from World Trade Center Site Headed to Fresh Kills for Sifting," silive.com, Feb. 1, 2010.) See also a video clip from Russia Today. At the end of this effort, it was reported that out of the 72 total new finds, 37 were found in the area excavated "underneath West Street." Since 2006 1,800 remains had been found and "some" previously unidentified victims had been found. ("Latest NYC 9/11 Search Finds 72 Human Remains," AP/CBS News [cached], June 23, 2010.)

However, this recent searching has yet to extend into the buried mass at the old landfill. That is, according to a 2008 NY1 News report that said: "A Manhattan federal judge recently dismissed a request from families to sift through debris at Fresh Kills." ("WTC-Affected Families Press Bill Clinton To Help Exhume Relatives' Remains," ny1.com, Sept. 10, 2008.)

The official Fresh Kills Park website attempts to comfort victims' families with this defensive testimony:

"During the 10-month recovery effort, rescue workers carefully screened and sifted the 1.2 million tons of material that came from the WTC site to Fresh Kills. The search effort did not end until all discernible remains and effects were removed and taken to the New York City Medical Examiner's office for identification and safekeeping. After the FBI, NYPD, and Office of Emergency Management determined the process of retrieval had been exhaustive and complete, the screened and sifted WTC materials remaining at Fresh Kills were placed in a 48-acre area immediately adjacent to the recovery site on the West Mound at Fresh Kills. A layer of clean soil at least 1 foot deep was placed in this area prior to placement of the screened materials; afterward it was covered with additional clean soil to protect the site and control erosion. The area is clearly marked to prevent disturbance."

- http://www.nycgovparks.org/sub\_your\_park/fresh\_kills\_park/html/about\_the\_site.html

#### TERRORISTS' DNA

Some terrorists' remains were reportedly identified, further emphasizing the intensive nature of the search and ID efforts. This was done by using "DNA from tiny traces of skin on the steering wheels of vehicles hired by the hijackers and from hair samples recovered from their hotel rooms," which the FBI used to create profiles of the 10 alleged New York terrorists - profile codes unfortunately not [publicly] paired with names. ("Remains of 9/11 hijackers identified," BBC News website, Feb. 28, 2003. Also 911myths.com). In February 2003 the FBI provided the hijackers' DNA profiles to the New York Medical Examiner's Office (BBC News website, Ibid.). "It took longer than a year" from the time of the OCME requested them. (Robert Shaler, op cit., p. 300)

"Eventually we received a one-page letter from the FBI containing ten coded STR profiles, presumably those of the terrorists. No names, just a K code, which is how the FBI designates 'knowns,' or specimens

it knows the origin of. These Ks had no names. We were certain these were the terrorists' STR profiles, but there was nothing to identify them as such. [...]

- "Elaine entered the STR profiles into MFISys: two immediate identifications!"
- Robert Shaler, Ibid.

"More than seven years later, . . . the scientists have now ID'd four of the 10 New York hijackers." (Eve Conant, op cit..) This is contradicted by Shaler's two. But there's more. After a couple paragraphs and months later in the book: "By identifying three of the terrorists, we created a problem: their remains were with those they murdered." Was that three *more*?

Through a contact at the FBI, a laboratory director, Shaler had been able to procure "the DNA extracts from the terrorists." (p. 301) Again, it must be assumed, no names accompanied the samples. (NOTE: The STR data produced was stored in a database separate from the victims. Also, the physical remains, when ID'd, were located and removed from storage near victims.) Maybe the same remains were ID'd again, after testing the actual samples, but Shaler's book is not specific.

The 2005 book says OCME identified three of the terrorists in October 2003. Yet the two from earlier (mid-2002) are left unconnected. (pp. 299-300) Eve Conant said 4 in 2009. Let's go with that.

Those readers who doubt the veracity of this evidence would be keen to point out the fact that in the end these were **anonymous** (classified?) DNA identifications. We don't know if the alleged pilot of American Flight 11, Mohamed Atta was recovered or not (Atta was credited with <u>striking the exact center of the tower</u> after beginning his day <u>at a Portland, Maine airport, where he was allegedly videotaped</u> before boarding his flight **to** Boston. Learn more in the <u>9/11 Commission Report</u>.) We got no names from the terrorist DNA identifications!

That is, maybe except in the case of the Pentagon DNA. Remember that the "FBI told us that brothers Nawaf and Salem al-Hazmi were on board Flight 77. Testing reveals two of the DNA profiles appear to be taken from brothers." (911myths.com, op cit..., pointing to evidence from S.M. Edson, et. al., "Naming the Dead - Confronting the Realities of Rapid Identification of Degraded Skeletal Remains," Armed Forces DNA Identification Laboratory, Jan. 2004, p. 83.) The brothers' DNA was not matched to collected samples like we were told happened in New York, for your information. The Pentagon DNA was simply not matched to known victims' samples.

"Nuclear DNA testing (along with dental records and fingerprints) of the remains from the victims aboard American Airline (AA) Flight 77 and within the Pentagon was useful for identifying 178 of the 183 victims. Five missing individuals (four within the Pentagon and one aboard the airplane) could not be identified due to lack of biological material from the crash. Five remaining nuclear STR profiles were obtained from the crash site that did not match any references for the victims. These profiles were thought to represent the terrorists aboard the flight. The 40 victims aboard the United Airline (UA) Flight 93 that crashed near Shanksville, PA, were also identified by nuclear DNA testing, dental records, and fingerprinting. Four nonmatching nuclear DNA profiles were also obtained from the crash site and again tentatively ascribed to the terrorists."

- S.M. Edson, et. al., Ibid., p. 83.

Dr. Tom Parsons of the Armed Forces DNA Identification Lab, October 18, 2001 at the Kinship and Data Analysis Panel, held at the NY State Police in Albany, "announced that he'd already identified more than one hundred people who had died at the Pentagon and at Shanksville...." The OCME in New York City had no DNA IDs yet. (Shaler, p. 117)

### **Survivors**

"The Greater New York Hospital Association – an organization of some 200 hospitals in the New York metro area – said <u>emergency rooms</u> treated more than 1,500 people after Tuesday's attack." (Gary Tuchman, "New York Rescuers Search Slowly through the Rubble," <u>CNN</u>, Sept. 13, 2001.) Hear one <u>doctor's story</u> about boats of all kinds ferrying dust-covered wounded across the Hudson to Jersey, to him and a team of volunteers. <u>The NY Times said</u> 561 victims were admitted to hospitals.

Inside the towers on a typical workday, some 14,154 were scheduled to arrive that day before the first plane hit. (Jim Dwyer and Kevin Flynn, 102 Minutes: The Untold Story of the Fight to Survive inside the Twin Towers, op cit., p. 2) The NIST put the number of people present at 17,400 +/-1,200. (NIST Response to the World Trade Center Disaster, Part IV: Life Safety," 4/5/2005, p. 5.) ABC News and Peter Jennings did a 1-year anniversary special (mirror) with many of the lucky ones.

Survivors to emerge from within the WTC rubble pile included, in no particular order:

1. **Pasquale Buzzelli**, engineer, 32 years old, who reacted to the thunderous, overhead rumbling instinctively by curling up in the corner at the base of a stairwell near floor 21 of the North Tower. Langewiesche wrote on p. 103 of American Ground:

"For an instant the walls folded onto his head and arms and he felt pressure, but then the structure disintegrated beneath him, and he thought, 'I'm going,' and began to fall. . . . He did not actively do anything at all. He felt the wind on his face, and a sandblasting effect against his skin as he tumbled through the clouds of debris. He saw four flashes from small blows to the head, and then another really bright flash when he landed. Right after that he opened his eyes, and it was three hours later.

"He sat up. He saw blue sky and a world of shattered steel and concrete. He had landed on a slab like a sacrificial altar, perched high among mountains of ruin. He was cut off by a drop of fifteen feet to the debris below him. . . . Somehow an entire huge building had passed him on its way to the ground. Somehow also he had landed just right."

See the Discovery channel documentary, "The 9/11 Surfer" (2012) "He and his wife, Louise, have also written an e-book, 'The True Story of the 9/11 Surfer: We All Fall Down.'" (today.com, 9/11/2012)

2. **Genelle Guzman-McMillan**, Port Authority clerk/secretary, 31 years old, was in the same stairwell near the 13th floor. Her legs were pinned and crushed, trapping her for nearly 27 hours beneath miraculously fallen debris. See the article at <a href="mailto:time.com/.../asurvivor.html">time.com/.../asurvivor.html</a> (cached) which asks prudently: Why isn't she dead?

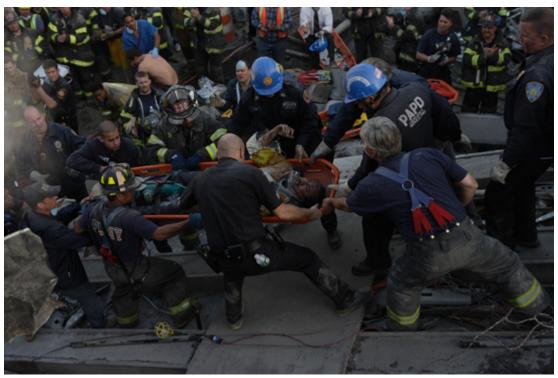
Genelle appeared on Oprah as part of a both depressing and uplifting – I dare say tearjerker – 1-year anniversary special. Not only did this helpless, broken woman bring hope to millions watching TV, she lit up the spirits of hundreds of firefighters and other first responders across Ground Zero that dusty Wednesday. "We got one." The last one rescued.

3 and 4. <u>John McLoughlin and William Jimeno</u> of the Port Authority Police were rescued after being buried for about 21 and 13 hours, respectively (Rebecca Leung, "<u>Last Man Out</u>," CBS News, Sept. 10, 2009... McLoughlin being that last man.). The <u>timeline at national911memorial.org</u> says the two were located at 8:00 p.m. "They free Officer Jimeno after three hours of dangerous tunneling work. Sgt. McLoughlin's rescue takes another eight." They were the main characters in the Oliver Stone film "<u>World Trade Center</u>" (2006).

Here's part of the story as told by Jimeno:

"[I]t is like an earthquake when the plane hits the south building. We are just about in the middle of the concourse, between the two buildings, just below and a little south of the big golden globe, when huge parts of the tower and shock waves come down into the plaza area, cracking all the cement. The whole concourse above us collapses. There are a lot of civilians all around, and I don't know what happens to them, but I think it has to be bad. I can see Liberty Street before me as I feel a ball of debris hit us. Now, I see a huge fireball coming at us, and I yell, 'Run! Run towards the freight elevator!" [The fire has come from the fuel that has poured down the elevator shafts.]"

- from Dennis Smith, Report from Ground Zero, op cit., p. 114.



Dramatization. PAPD Sergeant John McLoughlin rescued Sept 12. Image from Oliver Stone's film "World Trade Center" (2006) courtesy Paramount Pictures (Source). The <u>real thing</u> (which I deleted after somebody at FDNY asked) comes from the book <u>Above Hallowed Ground: A Photographic Record of September 11, 2001</u>, Viking/Penguin, 2002, p. 107.

That note in brackets probably came from the author of the book, not Jimeno. Several similar stories about underground destruction during the first plane crash have been collected. See below, "9 Seconds." However, the Jimeno story recounts the South Tower collapse 56 minutes after the second plane hit (the recollection of which is unfortunately placed in the same paragraph). The south tower underground fireball has to this day not been explained, but has been confirmed by other survivors like Ron DiFrancesco (also with Evacuees below). Immediately after the quote above, Jimeno's story continued:

"Dominick runs first, I am behind, and the sarge [McLoughlin] is behind me. Antonio is behind the sarge, and Chris is bringing up the rear. But Chris never makes it because the shock wave pushes him back into the main concourse area, and he takes the worst of it. Dominick and I and the sarge just make it around the corner, but Antonio doesn't. Everything just starts hitting us, and then the wall comes down on top of me." - from Dennis Smith, Ibid.

5. Tom Canavan walked away from the lobby of WTC 1 when WTC 2 fell, a security

guard with him at the time. See Canavan's brief interview in <u>footage from FOX News</u> (40 of 44, ID# S16100602 47351), his face covered in blood. Quoting: "Big boom. Come down the steps. Everything fine until we got to the basement then everything just fell in. I guess trapped under there, another guy... crawled out, kept getting hit in the head, bashed all around. Finally we fought our way out over the rubble." Many others such as Jules Naudet and FDNY Battalion 1 Chief Joseph Pfeifer survived the South Tower collapse because they were in the North. Some of this happened on film, and was seen on CBS as "9/11," later Paramount DVD "9/11: The Filmmakers' Commemorative Edition." They aren't listed here. The <u>UK Telegraph</u> says Canavan is "one of 20 people who miraculously survived the collapse...."

- 6. **Firefighter Kevin Shea** of Ladder 35 was pulled from the rubble of the South Tower. All 33 others in the 9<sup>th</sup> Battalion died, 11 of whom were from Kevin's firehouse, Ladder 35 and Engine 40. When he was discovered he had three fractures in his neck and a severed thumb... and no memory of the collapse. On November 17 he appeared on NBC's *Today* show to help the New York Police & Fire Widows' & Children's Benefit Fund. (Smith, p. 354.)
- 7 20. Fourteen people, mostly FDNY firefighters from Ladder 6 and Engine 39, survived in the B stairwell at floor 4 of the North Tower. (Mickey Kross distinctly remembered the 4 in the stairwell on page 77 of Dennis Smith's book.) With the help of some rope, eventually they crawled down to safety. They were Firefighters Billy Butler, Tommy Falco, Jay Jonas, Michael Meldrum, Sal D'Agastino, and Matt Komorowski of Ladder 6; Firefighter Mickey Kross of Engine Company 16, Firefighters Jim McGlynn, Rob Bacon, Jeff Coniglio, and Jim Efthimiaddes of Engine 39; Port Authority Police Officer Dave Lim; Battalion Chief Rich Picciotto of the 11th Battalion; and civilian Josephine Harris. (source). A documentary film was made about this lucky group. Watch "9/11: The Miracle of Stairway B" (History, 2006). Also see Kross and Jonas among others in "Report from Ground Zero" (a film based on the book by Dennis Smith, by Greengrass Productions, Inc., 2002).

"...and as I turned the corner on the third floor landing, the stairwell just erupted into a hurricane... This huge incredible force of wind and debris **actually came up the stairs**, knocked my helmet off, knocked me to the ground.... It was pitch black, a large amount of dust in the stairwell..." [emphasis added] - Firefighter Rob Bacon describes the WTC 1 event in "9/11: The Firefighters' Story," Paul Berriff, 2002.

FDNY Captain Jay Jonas related his story in Smith's book on pages 92-104. "And then, about three to three and a half hours later, all of a sudden a ray of sunshine breaks through the smoke and the dust. Once we see that, I say, 'Okay, guys, there is supposed to be 106 floors above us, but now I see sunshine. There is nothing above us.'" (Ibid., p. 101.) Jonas appeared with other FDNY survivors in the documentary "First Response - Ground Zero America" (A&E TV, 2001 – where he was mistakenly named John in the graphic at 0:41). He has since been in a host of other 9/11 programs, almost all of which have been listed at <a href="https://www.911conspiracy.tv/mainstream\_documentaries.html">www.911conspiracy.tv/mainstream\_documentaries.html</a>.

During the emergency that morning, officer Dave Lim of the PAPD Canine Unit left his dog Sirius, a yellow Lab retriever, in his cage on the first basement level of WTC 2. Sirius did not make it out alive. (Smith, pp. 89-92.) He was the only police dog killed in the attacks (according to CNN's one year anniversary program, "America Remembers" at 1:26.)

21. FDNY **Battalion Chief Ed Henry**, 40 Battalion. Few have heard his story of being pinned by rubble during the collapse of the North Tower. After wresting his legs free, crawling 250-300 feet north through darkness in the dust and debris, he found a firefighter to call an EMT/ambulance for him. He got his back checked out at Columbia Presbyterian, but when it

came time to be admitted to the hospital he said, "I have to go." (Eisner, Ibid., p. 159.)



WTC 3 prior to WTC 1 collapse. Bill Biggart was killed shortly after he took this photograph. He was the only journalist killed working the story that day. (<u>Running Toward Danger: Stories Behind the Breaking News of 9/11</u>, Rowman & Littlefield Publishers, Inc., Lanham, MD, 2002, p. xiv.)

22. FDNY had a presence in the Marriott Hotel (WTC 3, 22 floors) throughout the destruction of both towers. "On September 11, the hotel had 97-percent occupancy in its guest rooms [825 per FEMA] and 100-percent occupancy in meeting areas." (Peter Blanc, journeyman mechanic at the Marriott said. He also helped evacuate the building. "First on the Scene, The Unsung Heroes of September 11," buildings.com, 7/8/2002.)

**Lieutenant Ray Brown** of Ladder 113 was inside for the 2<sup>nd</sup> collapse, at lobby level. He worked at clearing rubble to free Lieutenant Bob Nagel, trapped in the first and lost in the second collapse. Brown suffered a concussion, lacerations on chin and head, five fractured ribs, bruised knees and hurt back, hip, shoulder.... He "was out [of work] for almost four months." (Eisner, p .162)

There were many injured FDNY who all deserve a spot on this list, of course. 23-25. **Firefighter John Wilson** of Engine 58 was in the lobby of WTC 3 for both collapses. In his good fortune, he stood in a post-1993 "reinforced" area with Lt. Ray Brown, listed above, and many others. (Eisner, Ibid. and Dwyer and Flynn, op cit., p. 231.) Beyond that area, many firemen were trapped in the first collapse and lost before digging could save them. (Eisner, pp. 161, 162, 166) "Whole companies had disappeared – at least forty firefighters were either in the part of the lobby that was crushed, or on the severed floors upstairs. [...] Engines 58 and 65." (Dwyer and Flynn, op cit., p. 231.)

Among the survivors were Engine 58 firefighters Mike Fitzpatrick, who helped Lt.

Brown with a Sawzall cutting metal to free Lt. Nagel (R.I.P.) – and **Scott Paskewitz**. (Eisner, p. 166) Paskewitz left to get some tools (the gas-powered saw) and also came back with news of the South Tower collapse. That next rumble made sense all of the sudden. After getting thrown around again, Mike was choked and trapped for a short while. ("The Heroes," Newsweek, 9/26/2001) Then he got up and joined Wilson helping Lt. Brown get medical attention. (Eisner, p. 167.)

26. A top webpage with **Lenny Ardizzone**'s name tells *quite* a story. False: "Ardizzone, a maintenance supervisor, was trapped 30 feet beneath 7 World Trade Center with broken bones in his arms and legs and his head split open." Better we believe the FDNY version.

The "we" in the following account is Captain Hugh Mulligan of Engine 236, speaking, and Firefighters Brian Harvey, Pete Strahl, and Anthony Palmentieri. Mulligan credits his 3 fellows for the success of the rescue, and his crew at 236 Brooklyn. In thanks, Ardizzone came to their Christmas party. (Eisner, op cit., p 229)

"The entrance to this hole was complicated. There was angle iron and rebar bent inward.... We had to shimmy down.... Once inside it was pitch black. We had the victim continue to yell or call out. At various points along the route there were some areas where you had to crawl, kneel.... We didn't have any flashlights. We thought we were in the plaza area.... 95% of the time, it was total darkness....

"The man in his mid-40's was buried by a mountain of debris on an escalator halfway up.... It was another area where there was some natural light from above.... We could see an enormous hole at the end of the escalator. It dropped off. We didn't know how far it went.... The victim, Mr. Ardizzone, was in the only area that was left."

"[...] We took a boulder of debris off one at a time. Brian monitored the man. He was coherent and functioning.... We moved one boulder and monitored him. Finally he was uncovered.... He had a broken leg, knee injury...."

"Now we tried to figure out how we were going to remove him. Where he was located, he was sitting on a two-story pile of debris.... We had no tools, sleds, nothing to stabilize him. Brian got down on all fours. We lifted and put the man on Brian's back.... We would hold him stable while Brian crawled down the 20-foot-high pile."

- "[...] We were all physically exhausted.... We went very slowly with a minimum amount of movement.... We found a clearing and we rested.... I went back the way we came to locate an exit. I said I would be right back.... Picking out my landmarks...."
- "[...] I went back to the original entrance with Pete. I realize we can't go out the way we came in. I went back to the guys inside. I said we don't have a way out. We have to look for another way.... we had no success...."

"Brian said he was slipping away. The most amazing thing I saw, Pete found a damaged orange pumpkin bucket. There was a broken water pipe six to eight feet away. He reached over an opening five feet wide with a two-three-story drop with the pumpkin bucket and let the water drip into it. He then kneeled next to the man's head and wet his lips with the water. I never saw anything like that."

- Captain Hugh Mulligan, Engine 236 writes in Eisner, Ibid., pp. 226-228.

The guys eventually opened a hole to the above, but that left them in a 20-30-foot deep crater with no way to transport the victim. Then they got a Stokes basket from above (a stiff stretcher/cot/litter with restraints) and fixed Mr. Ardizzone inside tightly. With rope from a "hardhat" guy above, the victim rose to the surface. (Ibid.)

27. Hear engineer <u>Arthur del Bianco</u>'s harrowing story of rescue (and rescuing others) and escape with a broken leg. He was in WTC 2 when the first plane hit. Here's a transcript for the video Sept. 13 at 11:39 am.

"I was about the 70th floor on the elevator in the 50 car when the lights flickered and people started screaming on the radios. And I heard women saying 'I'm trapped. There's fire. Get me outta here.' So I told the elevator operator 'open the door. Get the door open. Get these people outta here.' People

jumped on the elevator. We took them downstairs. ["downstairs" in the elevator. WTC 2 wasn't hit yet.] And they had to leave the elevator downstairs for the firemen to - for their access."

"We started helping the elderly people and the people coming down from the 40th floors, walking down the stairs and - which way to get out of the building.

"When we went outside building number four, we see - plane parts all over the place. I used to work in aviation. Plane parts all over the place. I see the the two planes that hit the two buildings, fire, people jumping out of the buildings, you know, up in the 80s, out of those floors. My partner and I - My partner and I start calling our fellow workers. One of the guys I know was down 6 levels below ground and we couldn't find him, nobody could get him on the radio. So we went back inside looking for him, and we couldn't get him, couldn't find him. We looked. Two other men got out that we were looking for and one guy, we couldn't find him for nothing.

"There was so much rain, so much water from the sprinkler system and the standpipes, and the smoke, that we had to get out ourselves. Everybody was being ushered through the complex, away from Liberty. All of the sudden it was like 'bang bang bang bang bang' like bullet shots and then all of the sudden three tremendous explosions; and everything started coming down. We started running, just running. We couldn't catch ourselves. The force just pushed us to the ground. We were pushed up against marble slabs and other people and glass, and the smoke. We were buried in that stuff.

"I reached up and grabbed a fireman by his belt. I had a flashlight. I feel my leg. Something is wrong with my leg. It's busted but I can't go any further, you know. So I'm gonna just crawl along. I busted this leg. We were walking along, I'm grabbing a belt from a fireman. Anybody I bumped into, I just grabbed on and yelled 'hang on, hang on, just follow us out, just hang on. Don't let go, Don't let go' You know, we changed directions. I know that Liberty Street's the other side. We're going out.'

(CBS anchor asks something) [...]

"I'm hanging onto people, dragging one leg limping and they're hanging onto me, like a little train."

"And as we crossed the street by the financial center, the building explodes and just comes down."

"And I'm yelling and screaming for my buddy Mike, because he was right next to me. He made it out.
- Arthur Del Bianco, from his hospital bed on <u>CBS Sept. 13 at 11:39 am</u>. (archived)

28-29. **Firefighter Adam Mazy** of Engine 3 worked with Ladder 12 in the hotel searching floors 14-19. Opening the stairwell door to floor 19, standing at the southernmost end of the building... the South Tower started to collapse. It cleaved the hotel. He **and another firefighter** "were buried underneath the stairs, trapped under Sheetrock and light sheet metal." They pulled themselves free. (pp.164-165)

30-?? Continued from the previous story: They crawled out and walked down, found an I-beam "propped up against the hotel" so they "were able to slide down." Except Mazy fell and had to crawl out of the ruins. "The civilians were assisted down 30 or 40 feet."

Mazy and the firefighters earlier "came upon several civilians who were located on the fifth floor" because the stairway was blocked with debris there. With a little manpower, it was cleared soon enough. (pp.164-165)

Again, the above list of survivors is incomplete. Living through the dark cloud of chemical soot, glass fibers and microscopic shards, concrete, cement, gypsum, lead, asbestos, all filling the lungs, mouth and eyes – that earns anybody the Survivor moniker.

So many people made it out at the last minute, running. William Rodriguez worked in the WTC, for maintenance/janitorial on B-1. Outside at the right time, he dove under a

firetruck to escape falling building parts, after helping unlock doors with his "master key."

From the underground parking garage, much of it protected during the collapses, a group of men emerged according to one account. They "helped in evacuating individuals in the parking garage and then proceeded to the underground pump station with colleague Rick Collins to assist the firemen with the fire pumps." Joseph Shearin, assistant chief of engineering at the WTC "with Dennis Hughes, Peter Boros, Donald Sighn, Phillip Hanna, Dennis Malopolski, Bobby Labriola,"... "and three strangers were all thankfully able to exit their underground location following the collapse of the second tower...." (Joseph Shearin from buildings.com, op cit.)

"Officially only 29 rescues were recorded at Ground Zero, however eyewitnesses and firefighters place the actual number as high as 200." ("9/11: Ground Zero's Responders," Lou Angeli, 2011, at 11:26.) 200? Modesty.

#### **EVACUEES - 102 MINUTES**

The Federal Building and Fire Safety
Investigation of the World Trade Center
Disaster, NIST NCSTAR 1-7, was
published in 2005 as the authoritative
document on the evacuation. The
Emergency Response Operations are
detailed in NCSTAR 1-8. Also in 2005
Times Books published the NY Times
bestseller 102 Minutes: The Untold Story of
the Fight to Survive inside the Twin
Towers, by Jim Dwyer and Kevin Flynn,
both employed at The New York Times
newspaper. (The book is also seen titled
"102 Minutes: The Unforgettable Story of



Escape route via WTC 5. Source: WNYW-TV

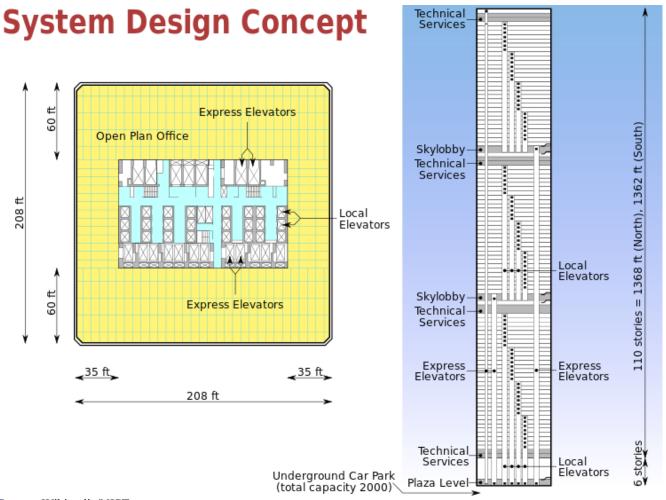
the Fight to Survive Inside the Twin Towers" in e-book form.)

The <u>Port Authority's fire safety video</u> for evacuation procedures in the WTC towers never could have prepared everyone for 9/11. (Source: NIST FOIA, 911datasets.org release 29, 42A0333 – G29D19) It *has* given us a rare look at the contents of the mammoth office buildings, though, and a better idea of what was happening as the clock ticked its short 102 minutes between first plane and second utter collapse (8:46 to 10:28). To go inside, see a docu-drama act out the events inside the towers: "<u>Inside the Twin Towers</u>," Discovery Channel, 2006 (a Dangerous Films production for BBC, <u>RTL</u> [Germany] and France 2.)

Thousands of people survived the WTC collapses by evacuating as the upper floors burned. See <a href="https://pincollapses.org/people-geolegy-sep-2-11-wtc-g

<u>Video shot by Jules Naudet</u>, made available on DVD as "9/11: The Filmmakers' Commemorative Edition" (Paramount, 2002) and on CBS TV as simply "9/11," captured a stuck elevator opening inside the WTC 1 lobby, releasing more lucky survivors (see image

from NIST NCSTAR 1-7, p. 123). The stairs became crucial not only because of procedural logic, but also since the elevators were almost completely disabled during the plane crashes.



Source: Wikipedia/NIST

There were 99 elevators in each tower (<u>FEMA Building Performance Study</u>, p. 2-13), but "[o]nly one elevator in each building was of use to the responders." (NIST NCSTAR 1, p. 192) See the graphic of the 3-tier elevator layout. Understanding this design becomes important when examining the damage on lower floors. (See below, "9 Seconds.") Sadly "around 200 people die[d] in the WTC's elevators without getting help from elevator mechanics, according to an in-depth <u>study later performed by USA Today</u>.... who said it 'could not locate any professional rescues of people stuck in elevators. [FDNY] and the Port Authority also could not cite successful rescues." However, NIST NCSTAR 1-8, p. 81 credits to FDNY a rescue of 9 people in an elevator at the "ground floor." The PA is also credited with 2 civilians saved from a deathtrap on the 71<sup>st</sup> floor.

After the North Tower was hit, "most of the WTC's 83 elevator mechanics" gathered in the lobby of the South Tower. When the second plane hit, they evacuated. (historycommons.org/ USA Today) Elevator mechanics (Otis Elevator) played a big part in rescues during 1993's events. ACE Elevator, the new contract holder, didn't help on 9/11. That is not to disparage them. Hear one mechanic Robert Jones, in WTC 2 as it was hit.... It was

policy to evacuate in an emergency.

Also there were three staircases per tower, two of which were 44 inches wide and the other 56 inches. (FEMA, Ibid.) See an <u>image of the stairway system</u> from NIST NCSTAR 1-7 p. 29. Was this enough for proper emergency egress? Read a <u>critical study of the WTC evacuation</u> efficiency (<u>updated</u>), performed by the University of Greenwich, London. It was fortunate the towers were "half-empty." (Dennis Cauchon, "<u>For Many on Sept. 11, Survival Was No Accident</u>," *USA Today*, Dec. 20, 2001.)

Roughly 99% of those below the plane impact zones lived (according to "<u>9/11: A Tale of Two Towers</u>," M. Attwell, 2002 [part 7 of 10] and a *USA Today* graphic [mirror] from the article by Dennis Cauchon, Ibid., Dec. 20, 2001.). Roughly 50,000 people worked in (or visited) the towers in a given day, according to a couple talking heads on TV news that day. Counting the number of dead, that meant in total about 95% of those workers survived – if only by **not** coming to work before 8:46 a.m. Plus the popular tourist attraction at the WTC 2 observation deck hadn't opened (at 9:30 a.m. according to Cauchon, Ibid.).

One noteworthy example of those people who survived luckily by not being there was WTC leaseholder <u>Larry Silverstein</u>, who would eventually get \$4.5 billion from insurance settlements related to the "two occurrences" of terrorism that brought down the towers. Instead of attending his usual breakfast meeting on the 107<sup>th</sup> floor of WTC 1 – and dying like the Windows on the World restaurant staff and patrons (<u>minus the lucky Chef [mirror]</u>) – Silverstein went to a doctor's appointment. (Steve Malanga, "<u>Rebuilding Ground Zero</u>," [<u>mirror]</u> *Wall Street Journal*, May 12, 2007.) [<u>See video interview, etc.</u>, including accusations from <u>We Are Change</u> lead activist Luke Rudowski that Larry was telephoned and told not to go to the WTC... and that he then called his daughter and told her to avoid the WTC. {<u>mirror</u>}] But this is hearsay.

In one famous story, when the first plane hit, "six men, including Polish immigrant window washer Jan Demczur, found themselves trapped in an express elevator at the 50th floor. Thinking quickly, Demczur and the others pried open the elevator doors and used this squeegee handle to cut their way through the drywall of the elevator shaft. They squeezed through the hole in the wall, fleeing from the building just minutes before the tower fell." (Smithsonian Institution website) From an elevator into the 50<sup>th</sup> floor's men's room. (CNN)

A favorite evacuee survivor story of <u>mainstream 9/11 documentaries</u> is the South Tower escape of Brian Clark and <u>Stanley Praimnath</u>. For details, watch "<u>9/11: A Tale of Two Towers</u>" (2002) or "<u>Inside 9/11</u>" (National Geographic, 2005). These were some of the 18 (<u>documented</u>) who found the one stairway passable through the impact zone. Often left out, however, are Ron DiFrancesco and Richard Fern (see Dennis Cauchon, "<u>Four Survived By Ignoring Words of Advice</u>," *USA Today*, Dec. 18, 2001.) These men were lucky to have walked away from the floors hit by [alleged] <u>United Airlines Flight 175</u>, the second plane.

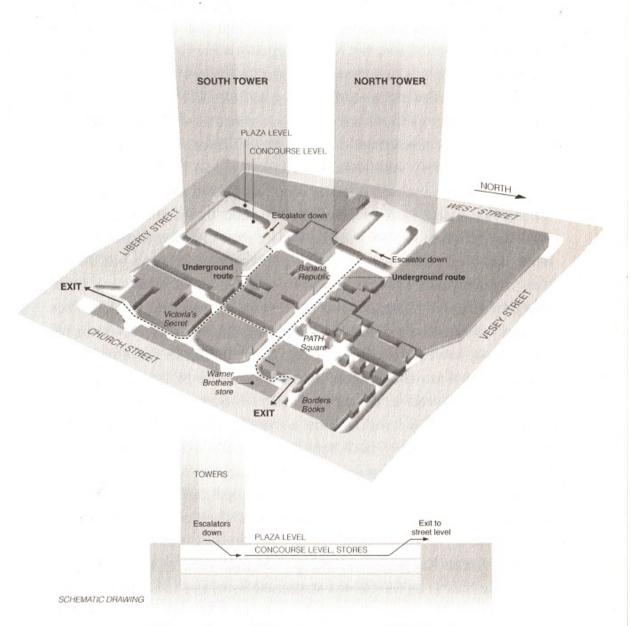
Take the story of Ron DiFrancesco (see the "Tale of Two Towers" clip, and ABC's 9/11/2002 anniversary special [see the full program here [mirror], source NIST FOIA, 911datasets.org release 28, 42A0282 - G27D4]). He was reportedly the last person out of the south tower, because his 60% scorched body regained consciousness days later in St. Vincent's hospital. (ABC 9/11/2002.) He had been hit by debris in the back of the head.

"As Mr. DiFrancesco and Mr. Kren passed an adjoining hallway near the Church Street exit, they heard an ungodly roar. Mr. DiFrancesco turned to his right in the direction of Liberty Street, to see a massive fireball – compressed as the South Tower fell – rolling toward them.

'Run!' he yelled. The two men bolted for the exit. Mr. DiFrancesco was bowled over by the explosion as he reached some stairs." - Andrew Duffy, "Last Man Out: The Aftermath," *The Ottawa Citizen*, 6/5/2005.

# Taking an Underground Route to Escape

The shopping concourse below the World Trade Center served as an essential escape route that allowed for the quick evacuation of both buildings. Two of the three stairwells in each tower ended at plaza level where the exit doors opened onto falling debris and carnage from the buildings. To avoid a logjam, rescuers directed people down and through the concourse, an underground route that offered protection from the dangers on the plaza above.



When people ascended from the concourse onto Church and Liberty streets, ambulances were waiting and the evacuees were a safe distance from the falling debris.

Sources: Port Authority of New York and New Jersey; LZA Technology; survivor and rescue worker statements

Mika Gröndahl/The New York Times

Was this fireball – perhaps the same described by Will Jimeno – the delayed combustion of jet fuel that had dripped down 80 floors? It is hard to believe considering the fact that if you throw a lit match into a puddle of kerosene/jet fuel, it will go out. "You can hold a match right up to the edge of a teaspoon half full of kerosene and it will not ignite (try that with gasoline and you will need to grow new eyebrows)." (<a href="http://www.milesstair.com/kero\_fuel\_primer.html">http://www.milesstair.com/kero\_fuel\_primer.html</a>) Some deny the jet fuel cause, although it was reported by numerous people in different places.

The image here comes from the <u>Journal of 9/11 Studies</u>, "Non-animated Visualization Aids to Assist in Understanding the Demolitions of the World Trade Center Twin Towers," Nov.

Representation of one of the Twin Towers

explosion

Side dimension 208 feet

Height

7, 2007. Here we see an outdoor pool measuring 18 ft. diameter, 4 ft. height, for a volume of 1,018 cubic feet. The NIST told us the planes' fuel tanks were carrying less than half capacity at impact. (Final Report on the Collapse of the World Trade Center Towers [NCSTAR 1], Sept. 2005, pp. 20, 38.) Detailed data about how much fuel spilled into where comes from the NIST document Computer Simulation of the Fires in the World Trade Center Towers [NCSTAR 1-5F], p. 56. About half of that pool is thought to have dripped down, or "flowed away" as the Journal of 9/11 Studies charted below (NIST data).

	WTC 1 (North Tower)			WTC 2 (South Tower)		
	Gallons	Cubic	Mass	Gallons	Cubic	Mass
And the second s		Feet	(lbs)		Feet	(lbs)
Total Jet Fuel	8,684	1,161	57,922	7,415	991	49,458
20% Burned in Fireballs	1,737	232	11,586	1,483	198	9,892
Total Jet Fuel after Fireballs	6,947	929	46,336	5,932	793	39,566
Remaining on Impact Floors	3,474	465	23,172	2,966	397	19,783
Flowed away	3,474	465	23,172	2,966	397	19,783

Conversion Factors: 1 US gallon = 0.13368 cubic feet. NIST used a weight of jet fuel of 800 kg/cubic meter, which equates to 6.67 pounds per gallon (~20% lighter than water).

While the numbers look big, the pool doesn't, in comparison with the WTC. Shortly we'll examine the possibility of jet fuel damage to WTC 1 floor 22, the lobby, and B4. For additional aviation fuel data, see <a href="http://femr2.ucoz.com/forum/12-11-1">http://femr2.ucoz.com/forum/12-11-1</a>.

There were literally hundreds of gripping stories from people involved in the rescue effort that morning. Transcribed oral histories of 503 surviving firefighters, paramedics, and EMTs were published in 2005 by *The New York Times* online, in PDF format, after legal action using NY state's freedom of information law. These "WTC Task Force Interviews" produced "searing, vivid testimony" of the day's events – uncensored by protocol, all gathered within weeks and months of the attacks. (Dwyer and Flynn, op cit., p. 270.)

These 10,000+ pages have been scoured for evidence of explosive demolition by researchers Graeme MacQueen and David Ray Griffin, as seen in the <u>Journal of 9/11 Studies PDF</u> and the <u>Snowshoe Documentary Films' video "Explosive Testimony!"</u> The findings were significant, but publicly unacknowledged. (Hear the generic <u>debunking</u>/denial.) Let's take a look at one particularly explosive time period. It was 8:46 in the morning.

Date	Origin Time (UTC)	Magnitude (Richter scale)	Time (EDT)	Dominant Period	Signal Duration	Remark
09/11/2001	12:46:26±1	0.9	08:46:26	0.8 sec	12 seconds	first impact
09/11/2001	13:02:54±2	0.7	09:02:54	0.6 sec	6 seconds	second impact
09/11/2001	13:59:04±1	2.1	09:59:04	0.8 sec	10 seconds	first collapse
09/11/2001	14:28:31±1	2.3	10:28:31	0.9 sec	8 seconds	second collapse
09/11/2001	21:20:33±2	0.6	17:20:33	0.7 sec	18 seconds	Building 7 collapse

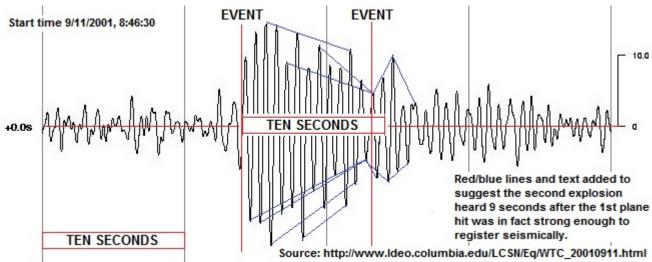
Source: http://www.ldeo.columbia.edu/LCSN/Eq/20010911\_wtc.html

### 9 Seconds (A Conspiracy Theory)

"Numerous eyewitness accounts describe a large flash fire on the concourse floor lobby at the time of the aircraft impact, that came from one or more of the elevator shafts. ... This observation suggests that sufficient burning liquid aviation fuel entered at least one of these elevator shafts to continue burning, while it fell roughly 1,175 feet. Even after falling this distance, sufficient unburned fuel was available to create the overpressure that opened the elevator shaft at the concourse level and forced additional unburned fuel into the lobby, creating the extensive flash fire observed." - NIST NCSTAR 1-5A, p. 80.

In minute one of the 102, the first impact allegedly by itself caused 12 seconds of seismic activity (the 2<sup>nd</sup> hit – 6 seconds). The 1993 bombing, *nothing*. (Won-Young Kim, et. al., Lamont-Doherty Earth Observatory of Columbia University, Palisades, N.Y., "Seismic Waves Generated by Aircraft Impacts and Building Collapses at World Trade Center, New York City," p. 4, PDF). Witnesses report *at least* two distinct explosions when the first plane hit. Hear the 9-second gap for yourself in the Ginny Carr audio tape (source mp3, from the Sonic Memorial Project and 911digitalarchive.org) recorded across from the WTC complex inside One Liberty Plaza on the 36<sup>th</sup> floor. Nearby, before the second plane hit, Evan Fairbanks recorded a witness who said he heard "two explosions, two separate ones." (version with audio), source FBI/NIST FOIA file 604\_WTCI\_454\_I.mp4. Also, a WNYW-TV camera caught audio from several blocks away. The second explosion is audible after added time for distance/echo.

More witnesses. "I think a bomb went off in the lobby first, then a plane hit the building." (Anonymous man on Inside Edition 9/11/2001 [aired 9/11/2002], NIST FOIA rel. 28, 42A0282 – G27D6.) "I believe the bomb hit the lobby first, and a couple of seconds then the first plane



9 seconds fits, if only as coincidence with a negligible waveform dip. This is significant also because the <u>1993 bombing</u> <u>did not register seismically</u>. Was that because the truck bomb didn't hit multiple core columns? Was 1993 data bad?

hit." (Evalle Sweezer on WABC 9/11/2001, air time unknown.) Janitor William Rodriguez was on B-1. His story/stories are inconsistent, but there is a recurring theme. Rodriguez thought there was an explosion below before the plane hit. Moving on, an ABC News narrator: "They were having coffee in the World Trade Center when the first plane struck." Woman: "It sounded like a subway collision, a bomb. And it was just pounding, boom boom boom. I literally thought the subway had exploded.... It was so loud." (Anonymous woman on ABC (WJLA) 9/13/2001, 12:32 a.m.) These witnesses did not see or hear the plane, so we can't be sure that the "bomb hit the lobby first." In fact, I know they are wrong in that assumption.

Quoting Rodriguez and citing radar data, further argument for explosions before the plane hit(s) came from "Seismic Proof – 9/11 Was An Inside Job," by Craig T. Furlong & Gordon Ross (Journal of 9/11 Studies, 2006). Radar data doesn't correspond with the seismic timeline, it is said. (See an attempt at explanation by 911myths.com.) I'll trust the words of Kenneth Summers on NBC, who watched debris fall from the plane impact before being hit with the delayed explosion/conflagration in the lobby. Also, if you listen closely to the Ginny Carr audio linked above, you can hear the plane first.

"I was sitting at my desk [not inside WTC 1, but across West St.]. We heard a loud boom. Then we looked and we said 'What was that?' and I ran out to the window and I look out and I see smoke. The next thing I saw, I mean, you gotta look at it. The bottom, elevator, the glass — flames exploded out of the front of the World Trade Center. Glass flew everywhere." - Witness standing on West St. beside the towers, NBC camera operator Ralph Patterson, NIST FOIA WNBC Dub4A 27. The plane hit first.

It seems the NIST failed to answer this question of two big bangs. Of course a lot of people failed to ask, just because it's logical that the plane would cause damage below via the elevator shafts. Jet fuel spilled down, sure. But did it "continue burning, while it fell roughly 1,175 feet..."? (NIST NCSTAR 1-5A, p. 80) Must have. A cursory observation "suggested" it.

Two elevator shafts ran from top to bottom, mind you. Yet, the firefighters said more than two shafts were affected – some on different floors. I should say "blown open." The official deductive reasoning obviously missed, ignored, and/or misrepresented some facts.



West side lobby of WTC 1. Video shot by Jules Naudet, "9/11: The Filmmakers' Commemorative Edition" Goldfish Pictures/Paramount, 2002. See the <u>undamaged east side</u> marble in a shot by John Labriola. East windows in <u>his photos</u> seem broken inward by debris, not blown out. See a <u>nearby view pre-9/11</u>. Narration by Jules Naudet: "I go in, and I hear screams. Right to my right there was two people on fire, burning."

No Ginny Carr audio, check. No inclusion of the 50-car (freight elevator) occupants, who were both unburned, and **on TV**. Really. Then instead, an anonymous bad witness was used, who *heard* 50 falling and crashing down with loud destruction – basement damage explained. Not! Was this a purposeful omission of key information to enable misrepresentation of the facts? Well, the NIST FOIA 09-42 revealed one occupant's TV interview was in fact in their possession. (Arturo Griffith on CNN, 911datasets.org release 27, 42A0196 – G26D55)

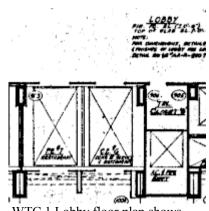
But, investigators might have asked, what did these apparently random explosions on lower levels accomplish? We'll see the claims. Let's start with the lobby and focus on Tower 1.

The <u>damage seen in the Naudet film</u> – marble walls broken in the building core at lobby level and windows blown out, both on one side, the west side – has suggested to many observers that *more* energy was required than could have come from overpressure and jet fuel combustion from 93+ floors up. That is, considering that many of the exploded elevators served only the lower floors, and were not connected to the impact zone like 50, and 6 and 7. FYI: "Also due to the building design, two express elevators [6 & 7] share a common hoistway enclosure...." (Robert Baamonde, Jr., "<u>Drive to the Top</u>," *Elevator World*, Mar. 2001, p. 61.)

"The first arriving firefighters observed that the windows of WTC 1 were broken out at the Concourse level. This breakage was most likely caused by overpressure in the elevator shafts. Damage to the walls of the elevator shafts was also observed as low as the 23<sup>rd</sup> floor, presumably as a result of the overpressures developed by the burning of the vapor cloud on the impact floors." - FEMA, op cit., p. 2-21. The 23<sup>rd</sup> floor? See below, "Floor 22."

People were burned both standing inside (<u>Jennieann Maffeo</u>, deceased after a 6-week

fight, <u>Lauren Manning</u>, alive after 80% burns, <u>Kenneth Summers</u> [seen speaking <u>here</u>]) and outside the building (<u>Busana Mutatana</u> and others out smoking, <u>Larry King Live</u>, <u>CNN</u>, Oct. 6, 2001). They stood due west of the elevator core.



WTC 1 Lobby floor plan shows elevators 6 & 7 open on both sides.

To the south of the elevators, through the glass doors to the Marriott, there was no window breakage (see below). This was facing directly across from *one of 2* elevator shafts in the building that stretched to the impact zone. The two elevators in that shared shaft (the 6 and 7 doors) were reported as "blown out" at lobby level, on the inside/north side. "Don (Parente) noticed that the doors of elevators number 6 and 7 had been blown out." (Courage Above and Beyond the Call of Duty: A Report of the September 11, 2001 Experiences of Port Authority Engineers at the World Trade Center) The cars were reported as "burned" hanging in their shaft at basement level, B-1. (NCSTAR 1-8 p. 43) Either their cables weren't cut (NIST damage estimate suggests this is the case [NCSTAR 1-2B, pp. 201-227]), or the emergency brakes stopped them at their

What may have happened when the plane hit (officially) was this: air was forced down the 6/7 shaft at high pressure, filled with hundreds of gallons of atomized jet fuel. It pushed as deeply as possible and broke through the B-4 pit door and the lowest elevator doors, B-1 and the lobby (north side opening). "No doors, no doors. They were all blown off. Some of them were in the shafts, some of them were in the lobby. You had to walk over them." (Firefighter

lowest service level. Somehow they weren't blasted down to their pit at B-4. (see B-4 drawing)

were in the shafts, some of them were in the lobby. You had to walk over them." (Firefighter Steve Modica, Eisner, p. 76) Inside the lobby should have been only 2 sets of doors, from 6 and 7. (50's got blown in – details coming soon) Once the doors were literally blown open, fuel vapor could burst into the lobby and any open elevators, B-1/mall (see p. 118), and B-4 (rushing south and east to the building perimeter – p. 125). Then the vapor trails ignited.

Liquid jet fuel doesn't explode and can't make right turns when falling, so the culprit was vapor. The quantity and potency of the fuel vapor might be explained by 1. high temperature: hot air pushed down the shaft was above 100°F flash point, and boiling temp. on impact floors +349°F to create the vapor; 2. high pressure in the shaft due to initial explosion and low pressure below, causing high speed; 3. tiny sprayed fuel bead size, not all of which was combustible due to lack of O<sub>2</sub> after the first few seconds of fireball. The initial blast forced itself down 6/7 like it would a window. The three stairwells were filled with debris, as is well documented. The 50 shaft was small, if not blocked. Nowhere else to go but windows.

"I walked out the revolving door from the lobby... and I had no sooner walked out the door where I heard a whooshing, roaring noise.... I looked – I heard the boom and the ground tremble and the next thing I know I was looking up at the roof and I'm seeing stuff coming off the roof. I figured my best bet would be to get back into the building.... I had no sooner gone back into the revolving door when a – all the sudden it seemed like the whole lobby, the door I was in and everything filled up with a yellowish, brownish combustible mixture. It didn't really smell any different, but it wasn't – it took so quickly to happen, it was like a tenth of a second, and the next thing I know it was a major explosion, of which I'm now thrown back out through both of these uh, the revolving door and outside."

- Kenneth Summers on NBC, from his hospital bed.

"I was walking through the mall toward Tower One to get to the elevator. The lights flickered. I stopped in my tracks and looked around. I saw a brown cloud coming down the center corridor in the lobby, and I feared for my safety. The brown cloud had a heavy density and reached from floor to ceiling. It

looked to me like it was both smoke and debris. It first came from the center corridor, but by the time it reached the revolving doors (a split second later) it seemed to come from every direction. At this point, the revolving doors exploded. They seemed to vaporize."

- NIST NCSTAR 1-7, p. 76, "Interview 1000046" (NIST 2004)

Before ignition down below, the vapor was pulled with hot air out of the shaft and towards the west lobby revolving doors and, one floor down, east to the B-1 mall. Then there was a tremendous chain of explosions or "flash fires," as reported on B-1, blowing up B-4 wherever tendrils of vapor fully invaded, blasting into the refrigeration plant and Akbar's.

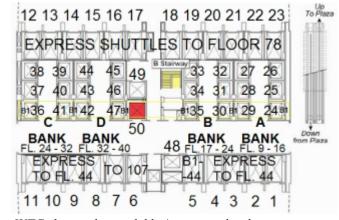
By the way, I am not qualified to offer a math solution. But it sounds better than the NIST's brief line. Question: The 6/7 cars survived just burned? Who was that witness anyway? (NCSTAR 1-8 p. 43) Still unexplained are floor 22, Akbar's, and PATH. Maybe.

There are no reports of south side lobby damage. Take Ronnie Clifford just after the plane hit (and another loud bang): "Baffled, Ronnie peered through the revolving door into the lobby of the north tower. He could see it was filling with black haze." Coming towards him then was Jennieann Maffeo, naked, all black and red, in agony, the zipper of her burned-off, melted garment looking "as though it were the zipper to her own body. [...] Suddenly, Jennieann told Ronnie, something bright and intensely hot enveloped her, **a vapor**. She thought it had dropped down the elevator shaft." (Hampton Sides, Americana: Dispatches from the New Frontier, Anchor Books, 2004. [emphasis added]) "With her, in the warm gust of the revolving door, came a pungent odor, the smell of kerosene or paraffin, Ronnie thought." (Ibid.) Clifford was safe to the south. As was this man:

"I was on the ground floor where the Trade Center connects with the hotel, which it's attached to. I was in the ballroom there, attending a breakfast meeting.... There was a very strong thud and the chandeliers shook. Then there was a second thud or explosion and more chandeliers shook and the lights flickered.... We were running for the exits ... we had a choice of either going towards the elevators of the trade center, which was the natural place to go because it was very well lit, or to go towards the lobby of the hotel. Many of us went towards the elevators, but then there was already a lot of dust coming out, emanating from the — I guess the elevator shaft which had been forced down.

Some went back into the lobby, and it wasn't very easy to get out because there were a lot of – a couple of revolving doors. When you have a lot of people trying to get through them that doesn't really work." - Lakshman Achutan, Oct. 31, 2001 interview. [emphasis added, as all bold below] No burns suffered. No broken glass. No visible damage to elevators 1 – 11 described.

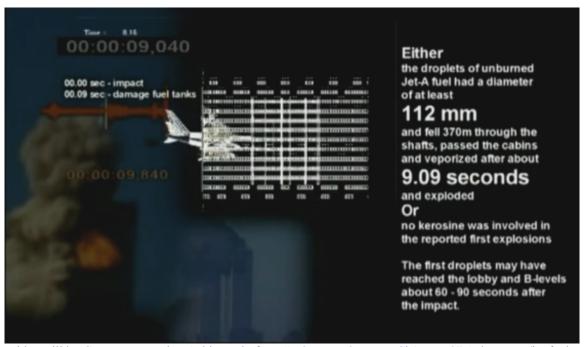
On the north side: David "Kravette caught an elevator down from the 105th floor to meet clients in the lobby. 'Which one of you knuckleheads came without an ID?' Kravette recalled asking, just as a tremendous explosion shook the six-story lobby.



WTC elevator layout, lobby/concourse level

fireball fold back on itself." (Dwyer and Flynn, p. 14) FYI, his elevator ride took two trips, one local to the 78 floor sky lobby and an express down the rest of the way. This is how we know he was on the north side. Kravette escaped unscathed.

The "crashed" elevators – if that's what they were – weren't connected to the top part of the building, above the impact zone. We know this by process of elimination. Only 50, 6, and 7 could possibly have had their cables cut by the plane impact. He may have heard 50 falling before it stopped on brakes between B-1 and B-2. Of course I don't blame Kravette for the mistake, since he was only trying to make sense of the chaos.



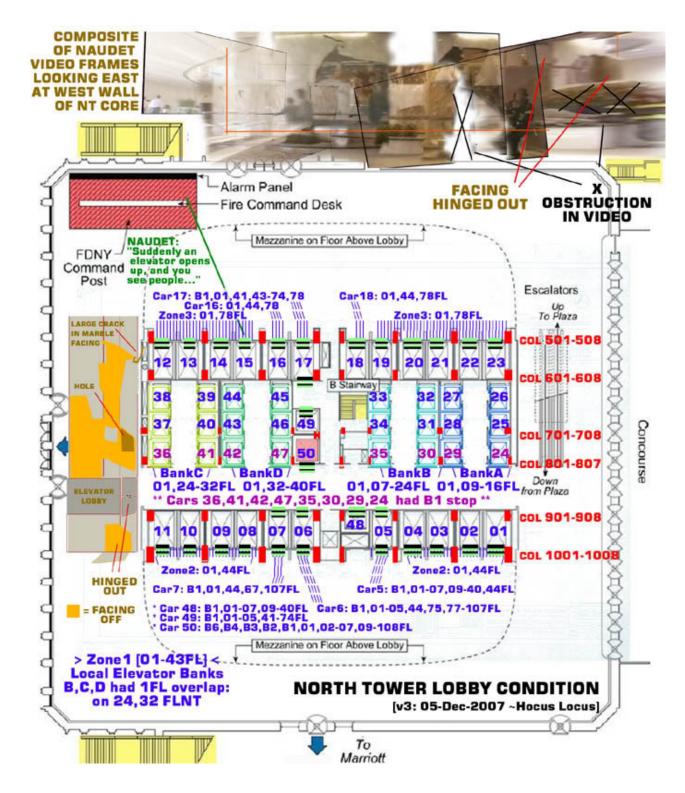
Video still by German researcher <u>Achimspok</u>, from "<u>NORTH TOWER - Ch15 Part2</u>" A kerosene/jet fuel droplet 1mm in diameter would fall 96 seconds from impact area to lobby level, accounting for air resistance. An explosion could only happen if the Fuel/Air ratio was right and if it had an ignition source.

Firefighter Peter Blaich, Ladder 123, said "In front of one of the big elevator banks in the lobby was a desk with the corpse of a security guard. The elevator bank was melted, so I imagine the jet fuel must have blown right down the elevator shaft and I guess caught the security guard at a table." (Eisner, p. 64.) More people were burned than are listed here.

"So we started to go in toward the elevator bank area and **just about every elevator bank had its doors blown off**. They were just empty shafts, a lot of glass around, a lot of marble, a lot of granite off the walls, Sheetrock down, some traction cable, scorch marks in a few elevator banks. No doors, no doors. They were all blown off. Some of them were in the shafts, **some of them were in the lobby.** You had to walk over them." - Firefighter Steve Modica, Special Operations Command in Eisner, Ibid., p. 76.

"What else I observed in the lobby was that -- there's basically two areas of elevators. There's elevators off to the left-hand side which are really the express elevators. That would be the elevators that's facing north. Then on the right-hand side there's also elevators that are express elevators, and that would be facing south. In the center of these two elevator shafts would be elevators that go to the lower floors. They were blown off the hinges. That's where the service elevator was also."

- Lt. William Walsh WTC Task Force Interview, Jan. 2002. (Service/freight car 50 details below.)



Considering the elevator system design and the location of the damages (WTC 1), we see there were far too many cars/shafts blown up... unless they were all blown *in* from the 6/7 vapor cloud explosion.

<sup>&</sup>quot;As we got to the third floor of the B stairway, we forced open an elevator door which was burnt on

all three sides. The only thing that was remaining was the hoistway door. I didn't recognize them initially, but a guy from 1 Truck said, oh, my God, those are people. They were pretty incinerated. I remember the overpowering smell of jet fuel." - Firefighter Peter Blaich, Ladder 123, WTC: In Their Own Words, Harvey Eisner, Ed., Cygnus Business Media, 2011, p. 65. Shaft not connected to impact zone. FYI, I just noticed there is another version of this quote at firehouse.com which includes "kerosene" instead of "jet fuel" as the last two words, and is followed by sentences edited out for the book I was quoting: "That's when Lieutenant Foti said oh, that's the jet fuel. I remember it smelled like if you're camping and you drop a kerosene lamp."

Could this third floor elevator have been at lobby level when the conflagration hit; then it went upwards carrying the dead upward like some kind of sick metaphor? Must have.

FYI, the 6 and 7 cars served different floors. Car 6 served B1 to floor 5, as well as 44, 75, and 77 through 107. [NIST NCSTAR 1-7,  $\underline{p. 34}$ .] Car 7 served B1, 1, 44, 67, and 107. See the "pit" of the 6/7 cars' shaft in <u>Sub-level 2</u> and <u>Sub-level 3</u> architectural drawings. Note that these original floor plans for the basement are named differently. The floor plans' Service level = B1 (NIST). The floor plans' Sub-level 1 = B2 (NIST). Sub-level 2 = B3, etc. down to Sub-level 5.)

Reports say almost all the elevators became useless when the planes hit. Remember that out of the 99 elevators in each tower (<u>FEMA Building Performance Study</u>, p. 2-13) "[o]nly one elevator in each building was of use to the responders." (NIST NCSTAR 1, p. 192)

"[S]ome firefighters actually reached the 78<sup>th</sup> floor in WTC 2. This ascent to the 78<sup>th</sup> floor was assisted by the use of an elevator that operated until just before the building collapsed. The elevator became stuck in the elevator shaft, and the firefighter operating the elevator was chopping his way out when the building collapsed." (NIST NCSTAR 1-8, p. 31.) According to recorded radio transmissions, FDNY found (and used) one elevator in WTC 2 operating up to floor 40. (Ibid., p. 33.) It was Chief Orio Palmer, a marathon runner, who climbed 38 flights of stairs and radioed from 78 saying "we've got two isolated pockets of fire. We should be able to knock it down with two lines." (P.A. Audio Repeater, FDNY transcript online, as heard in the documentary film "102 Minutes that Changed America" History, 2008. [mirror]) Seven minutes later – as if to deny FDNY the chance – the South Tower collapsed.

This firefighting occurred as a natural response to save lives, not as an attempt to lead an assault on the fire. The floor 78 sky lobby was a tank of death and pain. "Based on information from survivors, USA Today estimates that 200 people were in the 2,600-square-foot [sky] lobby when the jet hit. It was the deadliest place in the south tower: About one-third of the 611 [civilians] who perished in the building died there." (Martha T. Moore and Dennis Cauchon, "Inches decide life, death on the 78<sup>th</sup> floor," USA Today) Chief Palmer called for backup on his radio. "Try to get down to the lobby. Find out what bank of elevators terminates below the 76<sup>th</sup> floor. That's the bank we're going to want to use." (FDNY radio [see YouTube])

If more elevators had worked, and if the fire department had the "three to four hours" before "[i]nterior local collapse was expected on the upper floors," would the FDNY have taken the opportunity to fight the flame in force? (FDNY Safety Chief Al Turi in Harvey Eisner, op cit., p. 100.) Perhaps. Fighting fire is what they do. Lt. Jim McGlynn of Engine 39 was operating under Battalion 1 Chief Joseph Pfiefer's orders: "Walk up as far as you can and put out the fire." (Eisner, Ibid., p. 68) However, soon there were orders from Chief of Department Peter Ganci to restrict extinguishment efforts to rescue operations. Putting out the fire in that hour looked impossible, and anyway it was a secondary concern to saving civilians, so the decision was made that the fire would have to run its course. (Ibid.)

Back in WTC 1: "As it turned out, we had no usable elevators." (FDNY Battalion Chief

Joseph Pfeifer in the Naudet film "9/11: The Filmmakers' Commemorative Edition," at 29:20.) As the NIST said, it was actually one elevator. (Maybe two at one point.) "North Tower... near the elevators. I asked how we were going to get upstairs. With that, an elevator opened. A building employee was ferrying people down from floor 16. (Battalion 11 Chief Rich Picciotto in Harvey Eisner, p. 114.) From NIST NCSTAR 1-8, p. 79 we read: "The Port Authority vertical transportation personnel and FDNY Command Post staff were unaware of the elevator that was operating inside of WTC 1.<sup>201</sup> (PA Interview 5, fall 2003.) This elevator was staffed by a WTC building Elevator Starter. The Elevator Starter took a small number of FDNY personnel up to the 16th floor....<sup>202</sup>" (FDNY Interview 25, winter 2004.)"

"Narrator: 'Elevator operator [Mr.] Kelly Badillo was in the North Tower when the first plane hit.' Badillo: 'I think **one of the elevators, the lower ones**, I think the cables broke or something. Because they just came flying down. Shh boom! You could hear them... You could hear the wind shhhh like a wind tunnel. But **a lot of the elevators came crashing down**. Doors flying right open, boom, hitting the other side of the wall.

'One of them came down, and they hit the floor. Well, it hit half way or something. And the doors - one of them flew open, and then people started coming out of the elevator. And they had their hair was on fire. You could see the smoke coming off their jackets. And they just kept on running."

- <u>Kelly Badillo interview</u>, "World Trade Center: Anatomy of the Collapse" (TLC, 2002) at 27:20. Note: Taken on its face, this means elevators other than 50, 6, and 7 fell or blew up, which was impossible without secondary devices. Badillo may have heard debris, or the 50 car dropping, but it stopped safely. He probably heard the lobby explosion and the one on B-1 while inside his elevator. The only doors "hitting the other side of the wall" could have been 6 and 7, from the "wind tunnel." Other elevator car doors should probably have been blown inward. Burnt passengers could have come from a transfer.

#### Another elevator may have been in use briefly:

"We get into the lobby of the North Tower to the first elevator bank. There was one elevator out of the six that still had the lights on, but they couldn't get it to work. Meanwhile, **all the other elevators were blown** off their doors. So we tried the next elevator bank of six and they **finally got one that worked** to the 24<sup>th</sup> floor." - Lieutenant Bill Wall, Engine 47, in Eisner, Ibid., p. 93. [Emphasis added]

How would the NIST explain all these blown up elevators? How I just did? Did they purposefully ignore some of the FDNY testimony to make this a non-subject? (Granted, some of this testimony is unique to Harvey Eisner's book.) No mention was made in the NIST "Aircraft Impact Damage Analysis." In their chapter on "The Account of WTC 1," under section 2.4, "The Jet Fuel," we hear: "Some of the burning fuel shot up and down the elevator shafts, blowing out doors and walls on other floors all the way down to the basement. Flash fires in the lobby blew out many of the plate glass windows." (NIST NCSTAR 1, p. 24.) Um.

"We entered in through the front doors of the lobby. The lobby was screwed. All the windows were already broken. Marble walls that surrounded the elevator shaft, they were cracked and broken. I'm still thinking a bomb went off.

"We headed for the B staircase. It was pretty much **in the center of the core**. We had to go through these turnstiles. I remember there was **a lot of rubble** on the floor there. There was elevator doors ajar. There were elevator doors missing. I could see an **elevator car twisted in the shaft**.

"I remember I looked up at the ceiling because I thought maybe the ceiling got charred because there was a bunch of rubble on the floor. It was about three feet high in the middle. The ceiling wasn't charred. So I had thought the floor blew up.

"I was telling guys afterwards the floor must have blown up. Maybe there was a bomb downstairs or something..."

- Firefighter William Green, WTC Task Force Interview, Dec. 26, 2001.[Emphasis added]

Green came to believe the debris was a pile of bodies he "guessed" got incinerated in an elevator. No disrespect, but he did change his story. See this 2003 account in "Collateral Damages" here (at 26:20 in "9/11: The WTC Elevator Key." This must be a case of "recollections [being] refashioned by collective memory," (Dwyer and Flynn, 102 Minutes, p. 269.) i.e. the official story. In the months after 9/11, Green began to think his eyes had deceived him that day, into seeing rubble (from the floor blowing up because of a "bomb

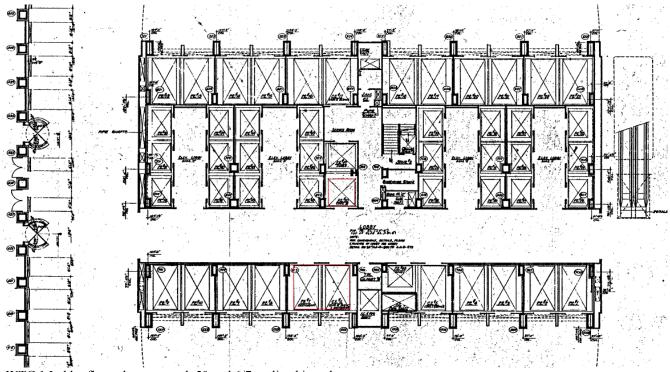


About 10 seconds after the first plane impact. The column of smoke at left has blown NE from its origin south of WTC 1. Unnamed photographer, from "Journalists & 9/11" video at <a href="http://exhibits.tributewtc.org/oralhistory/journalists-and-911">http://exhibits.tributewtc.org/oralhistory/journalists-and-911</a>

downstairs" which wasn't in anybody else's story) – in order to avert his consciousness from processing the violent charred death. "I guess my mind was processing, processing what this rubble could be. It couldn't be what it was." (William Green, WTC Task Force Interview, Dec. 26, 2001)

"There were 99 passenger elevators in each tower, arranged in three vertical zones to move occupants in stages to skylobbies on the 44th and 78th floors. .... **There were seven freight elevators, only one of which served all floors.** All elevators had been upgraded to incorporate firefighter emergency operation per American Society of Mechanical Engineers (ASME) A17.1 and Local Law 5 (1973)" - NIST NCSTAR 1-1, p.50) Firefighter emergency operation was never mentioned on 9/11 (that I can find).

That quote refers to car **50** of course. Now we hear the case of elevator operator Arturo Griffith and carpenter Marlene Cruz. Both were riding the 50 freight car in the basement at the time of the first plane crash. Marlene Cruz appeared on <u>NBC News Sept. 13 at 12:31 p.m.</u> Arturo was on with CNN's Larry King on October 6 (<u>see transcript</u> or <u>watch [mirror]</u>). They started on B-2, only seconds into their ascent when trouble began. (CNN, Oct. 6, 2001.)



WTC 1 Lobby floor plan, cropped. 50 and 6/7 outlined in red.

Marlene Cruz: 'I got on the fifty car, which is the freight elevator. I was going to do a job on the forty-sixth floor and the elevator operator closed the door. It was just me and him in the elevator. All of the sudden I heard that explosion and the doors blew and the elevator dropped and there was smoke, fire, water all over the place, debris, concrete, you name it, just fell on top of us. He was out cold for a second.' Matt Lauer: 'How far did the elevator drop?'

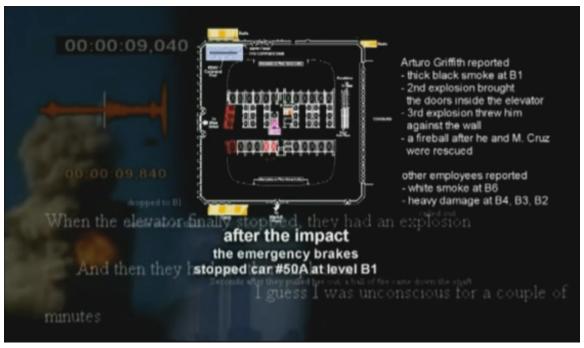
Marlene Cruz: 'I can't really tell you, but I was caught in between the floors. I was lucky. There was some other guys, coworkers, like Artie says, there's [always] workers down on the B-levels and they just pulled me out and they laid me on the floor." - NBC News Sept. 13 at 12:31 p.m. (emphasis added)

This means the **NIST** was incorrect in their statement that "cars 6 and 50 could have fallen all the way to the pit in the sub-basement level, and car 50 in WTC 1 was reported to have done so. <sup>59</sup>" (NIST NCSTAR 1-7, p. 122.) The source of the 2004 "NIST interview" referenced by the footnote 59 is unspecified. It is absolutely amazing that Griffith and Cruz – who were both on TV – were not used in the NIST report. Convenient for the official story, the conspiracy theory asserts – or they just plain missed it, got it wrong. It wouldn't be the first time. Let this book of mine set the record straight, then.

Elevator operator Arturo Griffith speaks of the events. Nothing about kerosene/jet fuel.

"And as I took off, it was amount it was a matter of seconds – five, six, seven seconds, I don't know. And there was a loud **explosion** and the elevator dropped. And when the elevator dropped there was a lot of debris and cables falling on top of the elevator. And I just – I just put my hand over my said and I said, 'oh God I'm going to die.' But I didn't know what was happening.

"When the elevator finally stopped, they had an **explosion** that bring the doors inside the elevator, and I think I'm sure that that was what broke my leg. And then they had another **explosion** and the panel that threw me, you know, against the wall, and I guess I was unconscious for a couple of minutes...." - CNN's <u>Larry King Live</u> Oct. 6, 2001. Is it possible explosion 1 = plane; 2 = lobby; 3 = B-1? I'm not sure what is the "panel that threw [him]" – perhaps the elevator control panel. Or wall panel?



Video still by German researcher Achimspok, from "NORTH TOWER - Ch15 Part2." Late fireball quote: "'It was so black and smoky. I couldn't see nothing,' Arturo said. 'When they got me out, I told them there was someone else down there, a woman.... Seconds after they pulled her out, a ball of fire came down the shaft. They almost got killed." <a href="http://911digitalarchive.org/seiu/details/54">http://911digitalarchive.org/seiu/details/54</a> [cached. Emphasis added.]

The Cruz and Griffith accounts (Griffith's again: <u>ABM Industries 2002 PDF</u>) speak from the mere sense of their being. Before rescue about 5 minutes later, no fireball threatened injury, despite there being "explosions." How did they not get burned? Luck. That 5-minute late fireball was probably backdraft from an oxygen-starved, jet-fuel-lined shaft.

The air pressure that helped 6/7 blow out the two lowest doors of floors served – was that a factor in the 50 shaft at all? It must have been if the B-6 damage and smoke is to be explained, if the lowest weak hoistway door was coincidentally at floor 22, even though car 50 served every floor? Must have been, because **the shaft for express elevators 6 and 7 didn't open there**. (See the blueprints.) Firefighter Paul Bessler: "On the 22nd floor, some of the elevator shafts were actually open." (WTC Task Force Interview, Jan. 21, 2002.) Shafts, plural? Impossible. Floor 22 accounts are below.

More on Griffith and Cruz and their amazing elevator shaft: the case of Mike Pecoraro and his coworker on B-6, B-1, and somewhere in between. "Mike's assignment that day would be to continue constructing a gantry that would be used to pull the heads from the 2,500 ton chillers, located in the 6th sub- basement level of the tower." (Chief Engineer, cached) While at work the lights flickered. Worried, his coworker called the Assistant Chief, but didn't learn much. "[T]he whole building seemed to shake and there was a loud explosion." Mike didn't describe fire or even noise, but he was using a grinder. Next, he becomes difficult to pinpoint. The "chillers" were in a huge area between the towers, three stories high.

"The two decided to ascend the stairs to the C level [of B-6, but at B-5 height I'm guessing], to a small machine shop where Vito Deleo and David Williams were supposed to be working. When the two arrived at the C level, **they found the machine shop gone.** 

"There was nothing there but rubble,' Mike said. 'We're talking about a 50 ton [strength] hydraulic press – gone!' The two began yelling for their co-workers, but there was no answer. They saw a perfect line of smoke streaming through the air. 'You could stand here,' he said, 'and two inches over you couldn't breathe. We couldn't see through the smoke so we started screaming.' But there was still no answer. They decided to ascend two more levels to the building's lobby. As they ascended to the B Level, one floor above, they were astonished to see a steel and concrete fire door that weighed about 300 pounds, wrinkled up 'like a piece of aluminum foil' and lying on the floor. 'They got us again,' Mike told his co-worker, referring to the terrorist attack at the center in 1993. Having been through that bombing, Mike recalled seeing similar things happen to the building's structure. He was convinced a bomb had gone off in the building.

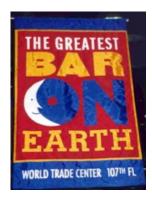
"Mike walked through the open doorway and found two people lying on the floor. One was a **female Carpenter and the other an Elevator Operator. They were both badly burned** and injured. Realizing he had to get help, Mike ascended to the Lobby Level."

- <a href="http://www.chiefengineer.org/article.cfm?seqnum1=1029">http://www.chiefengineer.org/article.cfm?seqnum1=1029</a> (cached 2002 webpage – emphasis added here) Since 6/7 didn't serve B-5 or B-6, the 50 sounds guilty. Except the refrigeration room was 3 stories. 6/7 damage on B-4 could have opened a path for air and fuel vapor, in the mean time wiping out Turner Construction (below). The B-6 C and B level damage would have been adjacent to WTC 1, south side.

Although the 50-car occupants were indeed hospitalized, they were not **"badly burned"** as Pecoraro asserts. Watch the TV interviews linked above. Marlene Cruz hurt her

leg and back. Griffith talked about an explosion that brought the doors inside the elevator and broke his leg. That probably came with a dose of soot, dust, and burned debris. But no burns to note. Just expectations of the burns.

"Elevators 6A and 7A were out of service for modernization." ("PA Interview 5, fall 2003" noted in NIST NCSTAR 1-8, p.43.) This is evidenced by photographs seen here. Unfortunately no 9/11 photos of the south side of the lobby are known to exist. However, these elevators were usually marked by a sign for the "Greatest Bar on Earth" up on the 107th floor. On 9/11 that sign stood on the north side (seen below beside the barrier of planters and **other blocked elevators**) where the FDNY command post was set up in the northwest corner. Travelers to 107 now





Elevators at left on 9/11/2001 - Photo by John Labriola

Not 9/11/2001 - Anonymous.

had to transfer at 78. Also, it was reported by ABC News correspondent Don Dahler on 9/11 at 11:47 am that "for at least a month" there had been problems with the elevators that went all the way to the top.

These two elevators were parked on B-1 at their lowest service level, as would have been logical during maintenance. The above quote saying they were out of service for modernization continued by saying, "The doors were blown off by the fireball that came down the elevator shaft and the elevator cars were burned.12 (Basement level of WTC 1)." [parentheses in original] The footnote 12 references "PA Interview 5, 2003" (unavailable) in NCSTAR 1-8 p. 43. Does this description account for the explosive force that caused extensive basement damages at and below B-1?

"There were two escalators going down into the mall under Tower 1. At the bottom we had to run through a waterfall. Water was falling everywhere .... **Many of the stores down in** 

ADA Access to PATH (\$3) 6 TO 57 A Vorld Trade PAPD Whitaker's fireball Center BANANA REPUBLIC 18 19 6 Subways 11 12 1 9 THE MALL AT THE WORLD TRADE CENTER 25 24 23 22 27 26 Marriott ₩ 30 Hotel 31 Subways 1 World Trade 31 World Center 37 rade

This map places PAPD Captain Whitaker in line with the corridor of the proper elevator shafts, but still far. (See original map with legend.)

the mall had windows blown out. All along the way there were emergency workers urging us on. ..." (One Nation: America Remembers September 11, 2001, Time, Inc. [Life Magazine], 2001., p. 44.) Emphasis added.

"When Flight 11 hit, he had been standing in front of a Banana Republic store in the enclosed shopping mall and concourse beneath the two towers, a spot he occupied four mornings a week and where thousands of people exiting the subways could see him. Whitaker had been stunned by a fireball that ran down an elevator shaft in the north tower." - Jim Dwyer and Kevin Flynn, 102 Minutes, p. 78.

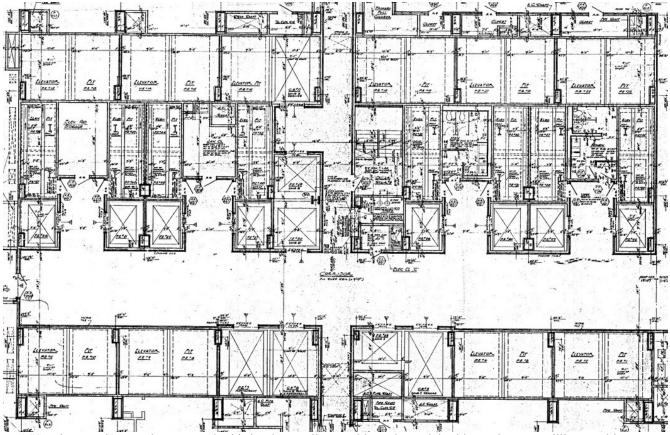
"The Port Authority's on-site commanding police officer [Captain (now Deputy Chief) Anthony Whitaker] was standing in the concourse when a fireball erupted out of elevator shafts and exploded onto the mall concourse, causing him to dive for cover." - The 9/11 Commission Report, 2004, Ch. 9.

Bear with me while we look more at lower level damage, this famous story from within WTC 1 B-1, the "service level" below the lobby.

"I was waiting by the elevator to go to the restrooms, and then there was a big bang, and the whole building shook. **The elevator door flew open, and a guy stumbled out**, and he was badly burned. "He was a delivery guy. The skin from his wrist was hanging down past his fingertips. He was screaming .... I took him down the hallway right around the corner to my supervisor's office. Another janitor and I grabbed the man and took him outside, one on each arm. There was an ambulance outside." - Kenneth Johannemann, ABM Janitorial Services [emphasis added here and below], from *People Magazine*, 9/24/2001, as seen in an ABM 2002 PDF called *Alliance Magazine*.

"I was down in the basement. All of the sudden we heard a loud bang. The **elevator doors blew open.**Some guy was burnt up. So I dragged him out. His skin was all hanging off. So I dragged him out,

If this story is true then the elevator wasn't 50, 6, or 7. Johannemann must have been mistaken about the man exiting the elevator. Maybe the burnt man (Felipe David?) was standing near the 6/7 doors when they blew – in the path of the ambitious fireball that went east out into the mall and shattered windows (Labriola quote). One of <u>William Rodriguez's versions</u> says, "[Felipe David] had been standing in front of a freight elevator on sub-level 1 about 400 feet from the office when fire burst out of the elevator shaft, causing his injuries."



B-1 "Service Level" core plan, cropped. This is where Felipe David was burned, beside an elevator. William Rodriguez was inside the Janitorial Office Area in the northeast out of view. Seen due east, Whitaker's fireball is probably what got David.

"That day I [Felipe David] was in the basement in sub-level 1 sometime after 8:30am. Everything happened so fast, everything moved so fast. The building started shaking after I heard the explosion below, dust was flying everywhere and all of a sudden it got real hot.

"I threw myself onto the floor, covered my face because I felt like I was burned. I sat there for a couple of seconds on the floor and felt like I was going to die, saying to myself 'God, please give me strength."

"Although severely burned on his face, arms and hands with skin hanging from his body like pieces of cloth, David picked himself up, running for help to the office were Rodriguez and others were gathered."

"'When I went in, I told them it was an explosion,' said David, who was then helped out of the WTC by Rodriguez and eventually taken by ambulance to New York Hospital."

- Greg Szymanski, "Two More WTC Workers Come Forward, One Seriously Burned And The Other Hurt While Trapped In Basement Elevator, Both Claiming Massive Explosion Took Place In Lower Levels Of North Tower On 9/11," <a href="mailto:arcticbeacon.com">arcticbeacon.com</a>, 7/13/2005, Quotes interview of David recorded in Spanish in 2002. The article highlights the theory that bombs hit before the plane. No mention of Johannemann.

"While working for ABM Engineering at the World Trade Center on September 11, Bobby [Hall] was injured in Tower One.

"We were going to our shop to make a call and find out what the first explosion was and the place just came apart on us,' Bobby said. What we found out later was the hot wind was the number 50 freight car falling from the 88th floor and it just came into the area where we were and just blew us back out into the parking lot."

- Susan Jhun, NY1 For You, "Engineer Injured In WTC Attacks Still Needs Help With Surgery Costs," 9/25/02. Another article adds detail: Bobby "was near a mechanical room floor 50 feet underground when the impact of a falling elevator threw him against a steel door." Now that we know this theory is wrong, what was the cause of the devastation? The hoistway door being blown out, and jet fuel?

"The employee was working on the **7th floor** [MER] **of WTC 1** when the aircraft hit the building. The building shook and continued to shake. The interviewee said that the 50 Car elevator shaft was located just beyond the room's wall where he was working. He heard the elevator falling and fly past his location. He heard people inside the elevator when it went past him. **Then he heard the elevator crash to the bottom of the shaft**, and he heard the elevator cables falling down the shaft after **the 50 Car fell. A second explosion followed**, and something came through the wall of the room. A fireball came into the room from the elevator shaft. The building had moved, and the room's door became jammed. Fire gasses that came into the room took his breath away, and when the interviewee finally got out of the room he collapsed on the corridor floor. Building occupants helped him up and helped to carry him out of the building. **Two of the interviewee's associates were injured by flying concrete block on the B2 and/or B4 levels** when the 50 Car elevator crashed to the bottom of WTC 1.<sup>206</sup> ("Other Interview 7, fall 2004") NIST NCSTAR 1-8, pp. 79-80. The witness may have heard it fall, but we know the 50 car did not impact B-6. **Now that we know this theory is wrong, what was the cause of the devastation?** 

One theory – not alleged by the NIST or FEMA reports, however – says it may have been combustion of the fuel stored on the lowest basement level (in WTC 1) for the backup generators. One report to the contrary said at least one of the fuel tanks was recovered intact. (Jeffrey W. Vincoli, Norman H. Black and Stewart C. Burkhammer, "SH&E at Ground Zero" [cached]). See also the DDC FOIA Sec. 1, p. 18, to read notes from a March 25, 2002 construction personnel meeting that noted a 10,000 gallon tank of oil at slurry wall section W31 had to be removed/emptied, as did the generator crank cases. This bad theory of generators exploding became relevant when studying a famous North Tower survivor's tale.

William Rodriguez was a janitor/maintenance worker in WTC 1. As that tower "fell" 102 minutes later, he only survived by diving beneath a fire truck. That was after he helped save as many as 15 lives (his website is inactive). Since then he has billed himself as "the last man out" of WTC 1 (www.william911.com/). When the first plane hit 94+ floors above him, "he was chatting with the maintenance crew on level B-1 in the basement [see drawing]. 'I heard this massive explosion below, on level B-2 or 3.... '" said Rodriguez. "I saw this guy come up the stairs. The skin on his arms was peeled away . . . hanging. Then I heard another explosion, from above. That was the first plane, hitting the building." (Mark Jacobson, "The Ground Zero Grassy Knoll," nymag.com, Mar. 19, 2006.) He reported part of this on WCBS Channel 2 that day. While some criticize his changing story, a stable theme in the re-tellings is that there were two separate rumbles or explosions, several seconds apart and in different places. (one version) More on Rodriguez after this:

Before we go any further, **debunkers need to know:** 

"Why would a bomb in the basement be required to go off as the plane hit? **What's the point?** It wasn't aimed to demolish the building, presumably. It increased the risk of detection, required more effort in

planting and hiding it, careful timing, and yet (if there were bombs elsewhere in the building) would achieve nothing at all.

"It might weaken the structure, you're saying? Why? The towers collapsed from the impact point down, not from the base. There's nothing a bomb 90+ floors below could do to affect that. And remember, the very base of the towers were left standing. This part of the structure is all that remained, which is why a few people survived in the lower stairwells and basement levels. No sign of it being weakened there." - <a href="http://911myths.com/html/william\_rodriguez.html">http://911myths.com/html/william\_rodriguez.html</a>

"The point" might have been plural. First was the need to disrupt fire and rescue operations. Split them up and slow them down. Reasons for this were many. The basic, grim truth in this false flag attack was that innocent people had to die, and lots of them. There was probably a meeting held somewhere to decide the number of dead needed to fulfill requirements for a <a href="new Pearl Harbor">new Pearl Harbor</a> (2,403 killed) to rally public opinion for war wherever, in Iraq (Operation Iraqi Liberation = OIL) to fuel the military industrial complex, surveillance, "terrorists" guilty until proven innocent, and, in the long term, to open business opportunities across the globe and ring in the <a href="New American Century">New American Century</a>. The <a href="endgame">endgame</a>: world government.

Fire and rescue had to be stifled, for example, to stop the threat of putting out the fires and hence, ruining the justification for the "collapses." Total extinguishment was highly unlikely for many hours, granted; but the 99% of all elevators being out of service meant it was impossible. "The lack of working elevators meant the fires high in the tower would have a galloping, destructive head start." (Dwyer and Flynn, p. 51)

Firefighting and debris clearing directed at key areas could possibly have saved hundreds, given time to get up to 92. As for the South Tower, firefighters were already making progress one floor from the flames when the collapse began. (See above, Orio Palmer.) Were they advancing on the fire too fast, so They pressed the button?

As shown below in "Floor 22," there was a wide-ranging disruption at the Security Command Center (SCC), where the described fire and damage was hard to blame on jet fuel and overpressure. The SCC's responsibilities in an emergency were many. [insert list] Locking them inside their bulletproof glass with smoke, for example, would limit their abilities. (below)

The second point may in fact have been the weakening of the structure, to pull down on a few key core columns (?) and thereby the trusses that supposedly heated, sagged and pulled on the exterior wall, ultimately causing collapse, said NIST. Quoting this e-book above:

"Independent investigation of this using Finite Element Analysis has shown [sagging trusses] to be an invalid cause for the observed inward bowing of the south wall. Instead a downward movement of the core solved the problem neatly. Part of the core collapsed first. Why?

Additionally, during "collapse" a dust jet began on the west side far below and before the official initiation. (Video source: Craig Braden.) This rules out the "piston" theory. Ironically Eugene Corley's early explanation of WTC 1 initiation (in the core) may have been more accurate than the NIST conclusions. His



"North Tower - motion detection by subtraction," by German researcher Achimspok.

evidence was early downward antenna movement." (See "Collapse: How the Towers Fell," Discovery, 2002 at 35:34 – NIST FOIA, 911datasets.org release 27, 42A0249 – G26D125.)

A big problem I see with that theory is the size of the steel columns would necessitate huge detonations that would be very recognizable. Instead we get stories of jet fuel.

For a minute I thought that this sinking core theory may explain the problems many reported with doors being jammed. Below ground in WTC 2, Philip Morelli described the problem (video). "All of the sudden here we go again. Building two gets hit. I couldn't get into building two. The doors – nothing would open. Nothing would open. Just felt like something got compressed on [inaudible] the frame. You couldn't even push doors." What happened in WTC 2? (Not now.)

"[Firefighter] Louie [Cacchioli] found the staircase and I think he said he got down about six floors, but the staircase was blocked, so he crossed over and found another staircase and he made it to the lobby. He had to force the door open at the lobby because it was jammed."

- Lieutenant Bill Wall, Engine 47 in Eisner, p. 94.

That may have been because of the explosion that rocked the elevator lobby, in a similar fashion to the plane impact on upper floors. One other lower level example comes from the 7th floor. "A second explosion followed, and something came through the wall of the room. A fireball came into the room from the elevator shaft. The building had moved, and the room's door became jammed." ("Other Interview 7, fall 2004," NIST NCSTAR 1-8, p. 80). In WTC 1 floor 89, "Breathing through damp paper towels, men and women banged on the metal stairway door, but the act had an air of futility. [...] Suddenly, a muffled voice called out: 'Get away from the door!' A moment later, the claw tooth of a crowbar burst through the drywall, tearing around the frame. Pablo Ortiz pushed the door open. Behind him, in the stairs, were Frank De Martini and Mak Hanna. (Dwyer and Flynn, p. 87) See the documentary "9/11: Heroes of the 88th Floor" or this New York Times article.

Many stairway doors were locked or jammed. In WTC 1, in such a stairwell at the 103<sup>rd</sup> floor a man screamed and "exploded over the radio. 'Open the goddamn doors[!]'" (Ibid., p. 141) One 911 call at 9:54 from a Shirley Dreifus was noted, "FC STS THAT **THE EMERG DOOR ON THAT FL ARE LOCKED** FC STS **SHE THINKS ON PURPOSE**---NFI." (EMSLog.pdf, nytimes.com, emphasis added) On the 86<sup>th</sup> floor of WTC 1, walls had come down and interior windows blown out, blocking one of two accessible stairways. James Gartenberg said on the phone to the *New York Times* "that it must have been an automatic locking system activated during an emergency. Most likely, it was not – the exit doors could not be locked, even accidentally, because their cylinders had been turned to make that impossible, according to Michael Hurley, the fire-safety director for the trade center. What may have happened was that the door frame had been knocked out of alignment by the impact." (Dwyer and Flynn, pp. 102-103)

If there were a benefit to attacking the columns in lower levels 102 minutes before the intended collapse time – or attacking the columns at all – then setting off some explosive charges early could lessen the need for a suspicious explosive concussion when finally initiating the total collapse – when the cameras were rolling.

Could the lobby explosion have been a tailored diversion or cover for strategically placed and timed explosives elsewhere? Since the real thing was unlikely...? The cover story of elevator shafts delivering the huge lobby explosion worked to start and stop conspiracy theories about the lower level explosions. Better to have a few people

claiming "bomb in the lobby" or even better "before the plane hit" than "attack on the Security Command Center" and "attack on all the elevators." The planners couldn't predict how much fuel and/or fire would travel down the two shafts. Yet they needed elevators – and Security – gone. That's the theory.

If the jet fuel theory is impossible, what else does that leave? Reports quoted earlier about the lobby filling "with a yellowish, brownish combustible mixture" before the explosion (Kenneth Summers on NBC and NCSTAR 1-7, p. 76, Interview 1000046, NIST 2004) sound like they've independently identified the real source of the fireball – fuel-air explosive. Not jet fuel vapor, that is. 

While similar in effect, a tactical weapon would be faster, more efficient and less unpredictable, obviously. "The cloud of fuel flows around objects and into structures. The second charge then detonates the cloud, creating a massive blast wave." (https://en.wikipedia.org/wiki/Thermobaric\_weapon)

Or it could have been jet fuel vapor. Liquid form is yellowish. There were planes.... Getting back to "the point": TV and media. Once the <u>nonstop news coverage</u> waned, people would have the worldwide broadcast of "9/11" in March and September 2002 (2006, 2011, etc.) thanks to CBS and the <u>Naudets</u>. This would show everybody how the plane strike damaged the whole tower down to the lobby, and how there was a "screaming woman burning from aviation fuel that poured down an elevator shaft." (Stephen E. Atkins, Ed., <u>The 9/11 Encyclopedia: Second Edition</u>, ABC-CLIO, LLC., Santa Barbara, CA, 2011, p. 321.)

"Naudet's camera shows the destruction that reached the lobby level when burning jet fuel dropped down elevator shafts and exploded into the lobby, blowing out the ground floor windows..."
- Stephen Prince, <u>Firestorm: American Film in the Age of Terrorism</u>, Columbia University Press, 2009, p. 128.

Not only that. Windows were blown out 93 floors down. Marble facing was knocked off the west walls of the lobby core. Both of these features were <u>captured in the Naudet film</u> [mirror], which explained that "flaming jet fuel had shot straight down the elevator shaft." Although that film was first broadcast in March 2002 when no official report had yet been published, the elevator shaft theory would turn out to **be** the official story (told by NIST in about that many words. A paragraph quoted above, a bit more.

When the first plane hit and William Rodriguez heard/felt the explosion beneath him (maybe steel columns jolting the foundation), he first imagined a generator exploding. (<u>Hearhim tell the story</u> now. [mirror]) Felipe David "comes running into the office saying 'Explosion! Explosion!" – badly burned, but alive. David says "The elevators, the elevators!"

To corroborate the Rodriguez story, listen to survivor/evacuee Hursley Lever talk to NBC's Matt Lauer from Bellevue Hospital (NBC Sept. 13, at 12:32 p.m. [mirror]). His ankle was shattered in one of two distinct explosions he witnessed in the north tower basement. Lever thought a transformer might have blown up, but the nearest substation was on B-1 while he was on B-4 (for WTC electrical system details, see a quote from Merritt & Harris, Inc., "Property Condition Assessment of World Trade Center Portfolio" [1 WTC], Dec. 6, 2000, p. 101 of 436.) Although the emergency generators (there were no others) might seem like a good explanation for the underground explosion (or timed explosions), this has been proven otherwise. Not only was the fuel for the generators recovered (from the lowest basement level, on the opposite side of the tower), as mentioned above, "[i]t is believed the engines came on-line to supply emergency power for a brief period, as in some early videos the lights were on in parts of the building and complex even as the towers started to come down." (Mark

McNeely, "Generator Set a Survivor of Tragedy," allbusiness.com, Nov. 1, 2002.) The title of that article says it all.

"At this point, we stopped at the 31st floor to gather ourselves. A couple of my members were a few floors below and not doing very well. It was here that we met up with Engine 33. [...] **We still had electricity** and no smoke condition, but were hearing reports of jet fuel on the upper floors. [...] ... our building was hit. Or so I thought. As I found out later, this was actually tower 2 collapsing. It shook our building like a rag doll. We all dove into the nearest stairwell. [...]

[...] began an orderly decent. We picked up firefighters, unaware of the order to evacuate, on the way down. **As we got lower, we lost electricity** and things started to slow down...."

- Lieutenant Warren Smith, FDNY Ladder 9, from Dennis Smith, op cit., pp. 265-66.

Also in Will Jimeno's survivor account of the first collapse, "one floor under the main concourse area, where all the stores are," afterward "[t]he lights are flickering, but they don't go out." (Smith, Ibid., pp. 114, 115.)

According to Con Edison, the main provider of electricity in New York City, "[a] total of eight 13 kW feeders were located at the WTC," coming from the two substations at 7 WTC across Vesey Street, where power was routed from a source in Brooklyn. ("9/11 Commission Interview of Consolidated Edison Company of New York Officials," Memorandum for the Record 04018143, Feb. 26, 2004.)

"Timeline on 9/11/2001:

08:46 a.m. Two WTC open/auto (O/A) 13 kW feeders went off

09:02 a.m. Two additional WTC open/auto (O/A) 13 kW went off

09:52 a.m. Four additional open/auto (O/A) 13 kW feeders went off

10:28 a.m. Status:

Cortlandt 8 of 15 feeders were off; Battery Park City 6 of 8 feeders were off; Bowling Green 6 of 16 feeders were off; Park Place 1 of 12 feeders were off" - Con Ed Interview, <u>Ibid</u>.

Since the South Tower collapsed at 9:59, it's strange that the document says that the backup electrical system worked until 9:52. Was that the "2 million watt, tertiary backup power system fed from the New Jersey Public Service Electric & Gas grid utilizing feeders from the PATH rapid transit system" installed by the Port Authority after the 1993 bombing, which "would take over after loss of both normal multiple Con Edison feeds and emergency generator power[?]" ("Testimony of Alan Reiss before the National Commission on Terrorist Attacks Upon the United States," May 18, 2004, p. 4.)

If not the emergency generators on B-6 or the transformers on B-1, then what was the source of the smoke that filled the subway/PATH [Port Authority



"Below Ground Zero in the subway tunnels" Or PATH? Source: The Ground Zero Museum (The clock was plugged in, so the time marks the loss of electricity after the WTC 2 collapse.)

Trans Hudson] train station on B-5? Some witness reports to the smoke include: 1. George Stephanopoulos, <u>ABC News reporter on 9/11 at 12:27 p.m.</u>; 2. U.S. Army Corps of Engineers Harbor Programs manager Joe Seebode "was on a PATH train from New Jersey under the World Trade Center on Sept. 11 at 9 a.m." when "the public address system came on and asked us to exit the station immediately due to smoke conditions." [U.S. Army Corps of

Engineers, <u>The New York District Times</u>, Fall 2001, p. 9.]; 3. Civilian Eileen on <u>CNN 9/11 at 12:13 p.m.</u>; 4 and 5. Two unnamed men in the <u>Evan Fairbanks video</u> (the <u>2010 release with audio</u>) – one said "<u>smoke was in the train station</u>" off camera a minute before the 2<sup>nd</sup> plane [<u>mirror</u>]. Minutes earlier a man told how on B-1 everybody's ears popped (he couldn't hear), and the place filled with smoke [<u>mirror</u>], source FBI/NIST FOIA file <u>604\_WTCI\_454\_I.mp4</u>]. What was the source of the smoke? The elevator shaft? A transformer on B-1? No, Rodriguez was too close to the transformer room; he would have seen it and heard it more closely. The elevators. That's what the burned guy said.

To elaborate on the Hursley Lever account of B-4 explosions, Phillip Morelli, a construction worker, was also there:

"I go downstairs, the foreman tells me to go to remove the containers, as I'm walking by the main freight car of the building, in the corridor, that's when I got blown. I mean, the impact of the explosion, or whatever happened, it threw me to the floor, and that's when everything started happening...

It knocked me right to the floor. You didn't know what it was. Of course you're assuming something just fell over in the loading dock, something very heavy, something very big, you don't know what happened, and all of a sudden you just felt the floor moving and you get up and the walls...And then you know, I mean **now I'm hearing that the main freight car, the elevators fell down**, so I was right near the main freight car so I assume what that was."

[Note that "now I'm hearing..." is not part of the recollection. The 50 freight elevator did not crash down. It was caught by its brakes and therefore could not have caused structural damage.]

"Then, I mean you heard that coming towards you. I was racing, I was going towards the bathroom. All of a sudden, I opened the door, I didn't know it was the bathroom, and all of a sudden the big impact happened again, and all of the ceiling tiles was falling down, the light fixtures were falling, swinging out of the ceiling, and I come running out the door, and everything, the walls were down, and I started running towards the parking lots.

I just thought something... because I know that the loading dock is on B1, that's three floors above me, I just assumed that a car or something exploded on B1 or something got delivered and something big and heavy fell over. You just knew it was something big...(...)

As I ran to the parking lots, you know, I mean, everybody screaming... There was **a lot of smoke** down there.... You gotta go clear across the whole -- from One to Two World Trade Center. That's the way you gotta run.

And then all of a sudden it happened all over again. Building Two got hit. I don't know that. I just know something else hit us to the floor. Right in the basement you felt it. The walls were caving in. Everything that was going on. I know of people that got killed in the basement. I know of people that got broken legs in the basement. People got reconstructive surgery because the walls hit them in the face."

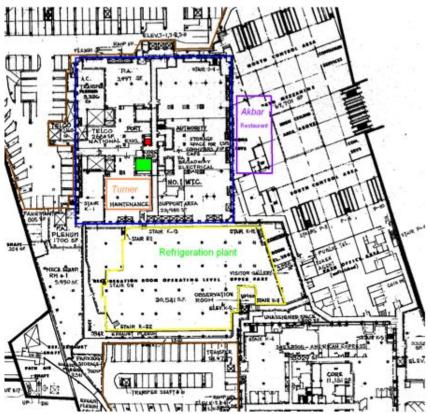
- Find video of the Morelli testimony thanks to <u>New York 1 News</u> [<u>mirror</u>] and FOX News/<u>itnsource.com</u> [<u>mirror</u> or <u>download</u>] Emphasis added.

On B-4 outside the tower's footprint to the east, a restaurant kitchen ceiling caved in for no good reason. It set off the smoke alarm. We can only guess what happened there.

"James Cutler, a 31-year-old insurance broker, was in the Akbar restaurant on the ground floor of the World Trade Center when he heard 'boom, boom, boom, he recalls. In seconds, the kitchen doors blew open, smoke and ash poured into the restaurant and the ceiling collapsed. Mr. Cutler **didn't know what had happened yet**, but he found himself standing among bodies strewn across the floor. 'It was mayhem,' he says. - <a href="http://www.asne.org/index.cfm?ID=3426">http://www.asne.org/index.cfm?ID=3426</a> ["Ground floor" should be B-4.] "**smoke and ash**" conflicts with closer person below.

"Akbar Emani, owner of Akbar's restaurant: 'Last Tuesday at about 8.50 in the morning I got a phone call from one of my employees that the kitchen back wall had come down, and the fire alarm panel, which is located in the back of the store, was also on the floor. And while I was talking to him on

the floor, he mentioned to me that the ceiling has also come down a little bit - a part of the ceiling. And that alarmed me, and I asked him to go and call the police. He said that there are no police available over there, and I said that's not possible, because normally there are about 25 to 30 police officers - there is a command post right next to the restaurant. At that time I knew something was terribly wrong, and I asked my general manager to get out of the restaurant immediately - we had about 37 employees. He wanted to stay back and, you know, collect the sales, and, but I asked him, you know,



B-4 with Akbar's outlined in purple. Green box is the 6/7 shaft. Red is 50. Yellow = Refrigeration plant operating level. Orange = Turner Construction.



Akbar's Cafe on B-4, beside escalators down to PATH train.

just don't waste your time, I think there is something wrong let me find out - just get out this minute, right now, and that's what he did."

http://www.abc.net.au/ correspondents/s373451.htm

"Bhojwani was outside at a space where the restaurant sold coffee and snacks to commuters who had time only to pick up something to go. It was a very busy time.

"Right then the newly installed alarm system went off. It was a sound nobody could ignore, like a bunch of police sirens sounding at once.

"Bhojwani thought the alarm had probably been set off by smoke detectors from a malfunctioning stove. He ran inside to reset the alarm panel and stopped in his tracks. The walk-in refrigerated room where perishable foods were stored had partly collapsed.

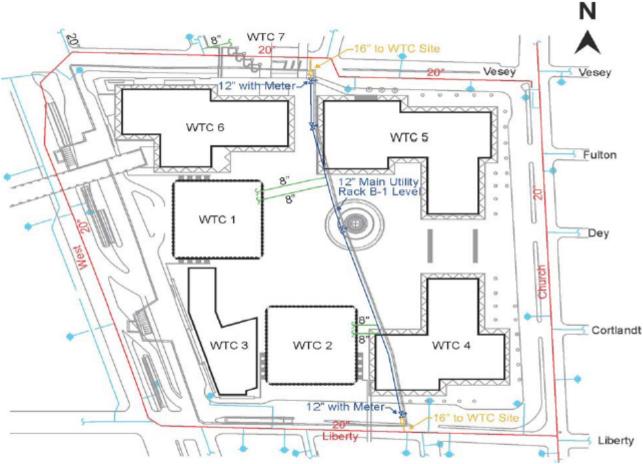
"The whole thing was down,' he said. 'And the fire alarm

was so loud and the fire brigade and police guys were like, 'You got to evacuate.' So we left everything as it was and ran."

http://in.rediff.com/us/ 2001/sep/15ny5.htm

I don't know what to think about that one, only that bottled fuel vapor made its way east through offices that didn't report an explosion because they're all dead? Let's say that explosion ruptured the WTC 1 east wall and the back of Akbar's kitchen. The only connection I can make for a possible motive to bomb the place is the water mains nearby (too far north perhaps), seen below in green.

A cave-in was reported at the PATH plaza nearby, trapping people. Port Authority transcripts say water was running, but there was more than one source:



Source: LZA Technology 2002; Beyler 2002. Reproduced with permission of the Silverstein Properties Group.

Figure 3–2. Plan of water distribution system surrounding the WTC complex. NIST NCSTAR 1-4, p. 13.

PAPD OFFICER 33: There's also been a cave-in at the platform of the PATH plaza ...there's a live electrical, and water running. Turn off the power in that area.

PAPD OFFICER DESK: Roger.

PAPD OFFICER TRUCK ONE: Truck one, desk.

PAPD OFFICER: Truck one, go.

PAPD OFFICER DESK: Three-three is reporting that there is a cave-in, B-4 level,

at the World Trade, copy? possibility of people trapped."

- PATH - CHANNEL 021, Transcript 10, pg 9, http://www.thememoryhole.org/911/pa-transcripts/

PAPD OFFICER 33: Myself and (Inaudible) to the Trade Center responding with scott packs to the **B-4** level. There's a report of a cave-in, and people trapped.

PAPD OFFICER DESK: Roger, three-three and eight-two Houston, World Trade responding B-4 level on a report of a cave-in.

- PATH - CHANNEL 021, Transcript 10, pg 9, http://www.thememoryhole.org/911/pa-transcripts/

Another quote referring to Basement 4, but without giving further specific location:

PAPD OFFICER MAGGETT: Port Authority Police, Officer Maggett.

ED CALDERONE - OCC: Maggett, this is Ed at the OCC. I got word that there's an explosion down on B-4. We got people hurt down there, B-4.

- WTC CH. 09 - POLICE DESK - 3541 CENTER, Transcript 37, pg 6

Next, there were reports from the area of Turner's office, which is to the south of the elevators, outlined in orange in the drawing above:

PAPD OFFICER BRADY: Port Authority Police, Officer Brady.

MALE CALLER - B-4 LEVEL: Officer, help. We're down in the B-4 level. This is Turner's field office. **There's been a big explosion. We've got water lines open.** There seems to be steam and smoke in the area.

PAPD OFFICER BRADY: Okay. Where...where exactly on B-4?

MALE CALLER - B-4 LEVEL: **Turner Construction**, right outside the 50-Car. **We're across the hall** from the **50-Car**.

PAPD OFFICER BRADY: Is there any smoke condition there?

MALE CALLER - B-4 LEVEL: It's...yeah, we got smoke. I don't how whether it's from fire, or just dust. We got broken water lines, water all over.

- WTC - CH. 08 - POLICE DESK - 3541 LEFT, Transcript 36, pg 4

"That communication referred to a big explosion. Open water lines and smoke are mentioned, but there was no mention of fires, and no one smelled kerosene which has a strong odor.... Some say that the mentioning of Car 50 is evidence that the explosion emerged from there. But Car 50, being the main freight elevator, is mentioned here only to provide a reference point from where the caller is standing.... It can only be concluded that it happened in the vicinity of the Turner Construction area, which is confirmed by other accounts." (Quoting at length from the "Attack on WTC 1" collection.)

"Bianca Figueroa was four stories below ground in One World Trade Center when she remembers hearing 'some kind of crashing, almost like the elevator had fallen in the shaft.'

"The blast blew out the walls, briefly blocking her exit. Then a maintenance worker opened a passageway through the refrigeration room."

"I was the first to get out,' said Figueroa, a single mom with a 15-month-old. Figueroa works at Turner Construction Co." - http://www.nydailynews.com/archives/news/2001/09/1/2001-09-12\_amid\_bloodshed\_\_a\_lucky\_few.html (dead link)

Edward McCabe, building engineer, was in the refrigeration plant:

"I was in the refrigeration plant in tower 1 sub basement 4. I was passing through when I felt a slight shifting of the building. I froze right where I stood and listened....nothing. About 30 seconds past and to my left about 30 feet from me was a stairway leading up to a door. This door explodes off its hinges and white smoke came into the plant. (...)

"When we got to the PATH platform I layed the woman down [sic], she thanked me, and I returned to the blown door to see if i could find anyone else. Sure enough there were more, the smoke was being sucked up the shaft now and I can see **there were no longer any walls just rubble**. A woman was under her desk refusing to come out. after a little coaxing she came and at this point a few of my colleagues, were sifting through the rubble, trying to find anybody. we did about 3 trips. Everyone was out."

- http://old.911digitalarchive.org/stories/details/936 See also above, Mike Pecoraro.

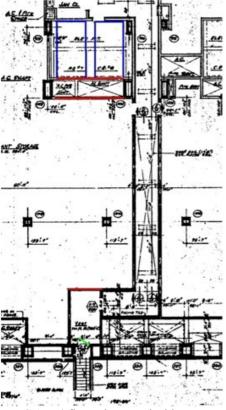
"The refrigeration plant was located outside the tower's foundation and adjacent to its southside. For the door to explode off its hinges, the blast had to destroy at least three walls before reaching the wall of the Turner office where the woman worked - it is highly unlikely that her desk was located in the hall." ("Attack on WTC 1," continued) That is, unless we attribute the explosion to a cloud of fuel vapor igniting in the hall.

"Elevators 6 and 7 are marked in blue. The walls in between are marked in red, and the door McCabe is talking of is marked in green. McCabe makes no mention of fire or the odor of kerosene. Neither is this mentioned in this report (which misplaces his location as being Basement 5):

"At about 8:45 a.m., he was in the refrigeration plant of the B5 level when he suddenly felt the building shake. An instant later, a door to his left was blown off its hinges. Boris Bronsteyn, his colleague, and a 30-year veteran, was taking readings nearby. The freight elevator shaft exploded into the area where they were. (Later Ed would learn that the jet-fuel had filled the elevator shaft causing the explosion.) Ed walked up to the door and tried to open it but it was jammed, but he was able to force it open. Entering the smoke filled office of Turner Construction, he saw that all of the office partitions within 50 feet were blown down by the force of the explosion. He helped several people who were bleeding and burned." - Source: Operating Engineers in Action at the World Trade Center Disaster

"It's important to note, that the quote referring to the freight elevator shaft exploding into the area, was only an assumption, and was not something witnessed by either Bronsteyn or McCabe." ("Attack on WTC 1")

If there's one crowning event that doesn't make sense for the jet fuel theory, it's...



WTC 1 B-4 floor plan, south side

#### Floor 22

"One of the things was, unfortunately, the brain center of the Port Authority, Security, was in fact taken out in that first strike."

- Michael Cherkasky, Pres./CEO Kroll, Inc. on *Larry King Live*, <u>CNN 9/13/2001</u> at 9:24 pm. Kroll managed security for the Port Authority of New York and New Jersey, who owned the WTC.

Port Authority radio transcripts from the day help tell another story that has not been properly explained by the official government reports (transcript source 2). NIST included this in NCSTAR 1-8, The Emergency Response Operations, p. 194: "8.47 am. WTC security radio report, PA Channel X - "...?...There is a **fire on 22. 8.47 am.** WTC security radio report, PA Channel X- "....?...on the 22nd floor a lot of debris." (Bold emphasis added, here and below.) Mention of the situation is made also in NCSTAR 1-7, p. 86: "Unfortunately, the individual was unaware of the condition of the 22nd floor, where critical communications hardware in the *hidden* security command center lay in ruins, likely preventing any building-wide public address announcements from reaching the occupants." (Emphasis added.) Note the word hidden. This feature of the buildings' post-1993 bombing modernization was not mentioned in the Modern Marvels WTC episode (...or any other video I can find. The basement OCC was covered, yes. The SCC on 22, no.) How did this damage and fire happen?

# **Public Address System Announcements**

- Damage to the 22<sup>nd</sup> floor communication closet likely disabled the building-wide announcement capability in WTC 1. The closet was located in a hallway adjacent to an elevator shaft in the core of the building. Many announcement attempts were made from the lobby command station.
- Announcements in WTC 2 were heard by occupants building-wide before the second aircraft struck at 9:03 am. Announcements were also heard in at least the upper regions (including above the impact area) after the second aircraft struck at 9.03 am.
  - At 9:00 am an announcement stated "There is a fire condition in WTC 1. WTC 2 is secure. Please return to your offices."
  - At 9:02 am an announcement stated "May I have your attention please. The situation is in Building 1. However, if conditions on your floor warrant, you may wish to start an orderly evacuation."
  - At 9:20 am an announcement was made updating occupants on the condition of the building and progress of the evacuation and informing occupants that if they wished to leave, they could then use the concourse.
  - Prior to 9:37 am an announcement instructed occupants to "go down" the stairs.

## NIST

Slide from "Life Safety - Evacuation, Emergency Response, Active Systems" presentation by NIST's Shyam Sunder on April 5th, 2005. WTC-Part-IV-Life-Safety-Final.pdf, p. 21 of 56. According to the WTC 1 blueprints, it must have been 6/7's shaft. Could construction of the SCC electrical closet space have breached the shaft wall, creating a weak spot exploited by highly pressurized air filled with jet fuel vapor? It's the only possible conclusion not including sabotage. But what to make of the elevators blown out?

"A jet fuel fireball erupted upon impact and shot down at least one bank of elevators. The fireball exploded onto numerous floors, including the 77th and 22nd; the West Street lobby level; and the B4 level, four stories below ground."

- The 9/11 Commission Report, 2004, p. 285.

"Security guard Hermina Jones said officials had recently taken steps to secure the towers against aerial attacks by installing bulletproof windows and fireproof doors in the 22nd-floor computer command center. "When the fire started, the room was sealed,' said Jones, who was in the command center when explosions rocked the building. 'Flames were shooting off the walls. ... We started putting wet towels under the doors. The Fire Department unsealed the door and grabbed us by the hand and said, Run!" - Curtis L. Taylor and Sean Gardiner, "Heightened Security Alert Had Just Been Lifted," nynewsday.com, Sept. 12, 2001, [cached].

But only one elevator shaft extending to the plane impact zone (floors 93 to 98) had access to floor 22 – that of freight car 50. **Express cars 6 and 7 did not serve 22**. (so no doors. See NIST NCSTAR 1-7, p. 34.) Even though it's the only answer, the freight car 50

shaft <u>in the middle of the building core</u> seems an unlikely delivery system for the selective destruction described by witnesses – even if car 50 had risen to exactly one floor below – and redirected the multi-purpose super-blast through the hoistway doors, shooting jet fuel vapor into the halls. That first explosion caused the elevator to drop, not to rocket down.

Remember the car 50 occupants didn't get burned like the 6/7 cars at B-1. Griffith and Cruz, in their brief TV interviews, didn't describe the smell of jet fuel during their 3 explosions. (3 per Arturo Griffith - see transcript or watch [mirror]) Then after being rescued several minutes later, Arturo reported the "ball of fire [that] came down the shaft" – which according to the conspiracy theory may have been the worst the real jet fuel did to the lower levels.

"When I got to the 22nd floor there was a lot of debris, everything was pushed to the center of the building. The windows were knocked out and I could feel the wind. I could not see. I got a radio transmission that everyone in Tower 1, get out." (NIST NCSTAR 1-8, p. 106. [Note the windows were not exterior according to the photographic record from the streets. No smoke came from that level.]) Describing the impossible, Firefighter Paul Bessler said, "On the 22nd floor, some of the elevator **shafts** were actually open." (WTC Task Force Interview Jan. 21, 2002, emphasis added. [hence the wind]) Bessler said *shafts* plural, but he must have been mistaken. And so must this next firefighter. Another witness said "part of the 22nd floor was sheared away and the corridor was blocked by fallen debris. [...] We had to crawl for ten to fifteen feet under debris to get to the fire stairs." (huemer.com accessed Dec. 2001.)

"I think we had – the gentleman that was in charge of the Port Authority police was with us.

"So we stopped at 22. Lieutenant Desperito and I believe one other member of Engine 1 tried to make their way down the hallway on the 22nd floor off the B stairwell to the command post. We were there three or four minutes. The elevator **shafts** were blown out, so they had to make their way around -- the fire came down the elevator shafts." - Firefighter Craig Dunne, <u>WTC Task Force Interview</u>, Jan. 22, 2002.

"We made it up to the 22nd floor. We stood there for a couple minutes. I believe Andy Desperito talked to the battalion through the fire warden phones. We did locate somebody at the end of the hall, but **everything was blown out**. The ceiling had fallen. The drop ceiling had blown to the floor. Some of the walls were blown out. So Andy and I had crawled down the hallway to get to the Port Authority command post." - Firefighter Kirk Long, <u>WTC Task Force Interview</u>, Jan. 28, 2002

"When we got to 22, we heard there was a Port Authority command post on 22. So we were stopped there. My officer wanted to find out some information, my officer Lieutenant Andy Desperito. He went over to the command post. We noticed in the hallway that the **elevator shaft had been blown out**. There was nothing there, no doors, no framing, nothing. When you looked down, all you saw was the cables for the elevator and the brick work that was surrounding."

- Firefighter Michael Yarembinsky, WTC Task Force Interview, Jan. 14, 2002.

If not a jet fuel fireball and overpressure, then what? More importantly, why? Elaborate investigation of the damage to the 22<sup>nd</sup> floor Security Command Center, including numerous witness accounts, has been done at the <u>Loose Change Forum</u> (see <u>full work</u>). Collected clips from the NIST report help us understand the unacknowledged reasons why FDNY had to rescue civilians trapped on floor 22. (<u>The 9/11 Commission Report</u>, p. 316.)

"Door locks leading to mechanical spaces and the roof were controlled electronically at the Security Command Center (SCC) on floor 22." (NIST NCSTAR 1-7, p. 30.) "On September 11th, the WTC 1 Security Control Center (SCC) attempted to release all locks controlled by the computerized access system but was unable to do so because of aircraft damage to the system." (NCSTAR 1-8, p.48. [Should be "Command" not "Control." Exchangeable, perhaps.]) At 9:54 a.m., "WTC Vertical Transportation message indicates that an officer is located on floor 22, fire command center and that there is heavy traffic in the B stairway. The person indicates that they cannot release any emergency locked doors due to fire and the loss of electrical power." (NCSTAR 1-8, p.35.)

Which is strange since "[t]he NYC Building Code also required that, in the event of a power outage, the re-entry locking mechanism [For which doors?] would default to the open position." (NIST NCSTAR 1-7, p. 30.) It appears there was electricity even above the plane impact. At least one phone call came from WTC 1 floors 106/7 to the Port Authority police command desk (WTC 5), about 2 minutes after the first strike. "Officer Steve Maggett answered one of the lines, and heard from Christine Olender at Windows on the World," where she was GM. (Dwyer and Flynn, p. 38) This is confirmed by Alan Reiss, WTC Director of Department of Operations and Maintenance. It was before the 2<sup>nd</sup> plane hit when, he said, "Calls coming in from Windows of World [sic]; so power is still on there." (9/11 Commission Interview, 11/3/2003)

To get onto the roof from the 110<sup>th</sup> floor stairs, one needed an electronic swipe card for 2 successive doors.

"That put the person in a tiny vestibule facing a third door that opened to the stairs leading to the roof. To get through the final door, a person had to be buzzed in by security officers who watched on a closed-circuit camera from their offices on the 22<sup>nd</sup> floor of the north tower." [Reiss said the OCC unlocks the roof doors the same way, after CCTV confirmation. {Alan Reiss testimony to the 9/11 Commission 5/28/2004}]

"Marie Refuse, one of the security officers on duty in the 22<sup>nd</sup> floor center, was still at her desk at 9:30. She spoke with Ed Calderon, a supervisor, whose radio code was S-5.

"Marie Refuse: 'Would you like me to release all doors and gates?'

"Ed Calderon: 'That's affirmative . This is the S-5, that is affirmative.'

"Marie Refuse: 'That's a copy, we're doing it now.'

"There was a problem: the computer that operated the doors was not working properly. ACCESS DENIED, the screen blared. The security agents on 22 could not open the doors to the roof, or to the floors just below it, which were mechanical rooms and also required electronic access. For that matter, they could not even open their own door, from the inside." - Jim Dwyer and Kevin Flynn, 102 Minutes: The Untold Story of the Fight To Survive Inside the Twin Towers, Times Books, New York, 2005, p. 142.

Marie a few minutes later says to a deputy security director, George Tabeek, "We can't use the software right now to try to release the doors." He and some firefighters were on their way to 22. Marie survived.

In the South Tower maybe 10 minutes after the second plane hit, "Roko Camaj, the window washer, had both the authorization and the swipe card, but he couldn't make it onto the roof, either." (Ibid., p. 143) He was stuck above the impact zone with the remainder of the 618 people at or above the plane impact zone. (1,356 in WTC 1, Eric Lipton, "Study Maps the Location of Deaths in the Twin Towers," <a href="https://nytimes.com">nytimes.com</a>, 7/22/2004.) The 1993 bombing rooftop rescues by helicopter were no guide on this day. (In '93 the NYC Fire Chiefs Association criticized the Police Department as "grandstanding" and endangering public safety - p. 133)



Feb. 26, 1993 CBS TV News

This time life-saving heroics in deadly smoke were not possible, even barring initial NYPD Aviation instructions NOT to rappel onto the roof, anyway (p. 135). Detective (co?)pilot and unofficial photographer Greg Semendinger recalled the painful urge to swoop in and pull people out (p. 136) sort of like he did in '93. Flying in NYPD Aviation Unit 6 was Semendinger and Officer James Ciccone. They saw nobody on the roof of WTC 1 or 2. The only possible approach on 1 was where the window washing machine was inconveniently perched. (photos, video...) The South Tower was the better landing zone, considering lower fire and fewer antennae. The sad reality was, as Ciccone observed, "[t]he heat actually made it difficult for us to hold the helicopters because it would interfere with the rotor system." (9/11 Commission Staff Statement 13.) He also mentioned the smoke, of course.

"At 8:50, the Aviation Unit of the NYPD dispatched two helicopters to the WTC....

At 8:56, an NYPD ESU team asked to be picked up at the Wall Street heliport to initiate rooftop rescues. At 8:58, however, after assessing the North Tower roof, a helicopter pilot advised the ESU team that they could not land on the roof....

By 9:00, a third NYPD helicopter was responding to the WTC complex."

- The 9/11 Commission Report, p. 291.

How much do you want to bet that if people got up onto that roof, some of them would have been rescued? If. Security "could not open the doors to the roof," so there was no chance. (Dwyer and Flynn, p. 142.) Whether by design or happenstance....

There's no radio traffic evidence (Camaj had a walkie-talkie with intermittent reception)



9:58 a.m. Unknown officer, NYPD Aviation Unit 12 (seated beside the videocamera) just before the first collapse. In the window a reflection can be seen of the NYPD Emergency Services Unit (ESU) <u>patch</u>. See <u>more photos</u>. A man is seen beside chopper #12 <u>in the video carrying a small object</u> – presumably the camera that shot the roll of film (32) incorrectly placed in the "GregSemendingerfromCD" folder in 911datasets.org NIST FOIA release 18.

to suggest Camaj was able to use his swipe card, or even get beyond floor 105, his given location in WTC 2. (Jim Dwyer, "The Port Authority Tapes: Overview; Fresh Glimpse in 9/11 Files of the Struggles for Survival," <a href="nytimes.com">nytimes.com</a>, 8/29/2003.) "He never specified why he could not get to the roof." (Dwyer and Flynn, Ibid., p. 143)

With the doors electronically sealed, nobody could investigate the 75<sup>th</sup> to 76<sup>th</sup> floor mechanical equipment room after it exploded smoke and/or dust out the east side when the plane crashed into floors 93 to 99 – crash and expulsion being significantly divided. What's more, the MER that expelled dust was not connected to the upper zone. The dust blew out exactly where it would have for the 59-91 floors' elevator motor generator room or connected toilet exhausts. See <a href="NIST NCSTAR 1-2B">NIST NCSTAR 1-2B</a>, <a href="Analysis of Aircraft Impacts">Analysis of Aircraft Impacts</a> into the World Trade <a href="Center Towers">Center Towers</a> [Chapters 1-8], where you won't find the Staehle photo (above, below). For more information go see an <a href="inquiry of that unexplained first plane damage">inquiry of that unexplained first plane damage</a>, including photos

showing the lack of windows on the 2 MER [Mechanical Equipment Room] floors. (Floors 7-8 were 14 and 10 feet high, respectively. Floors 41-42 were 14 feet each; as were 75-76. [source])

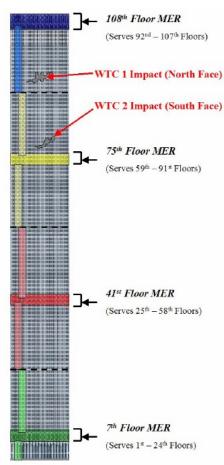


Figure 5–4. Location of MERs, WTC 1 and WTC 2.

Source: NIST NCSTAR 1-4, p. 77.

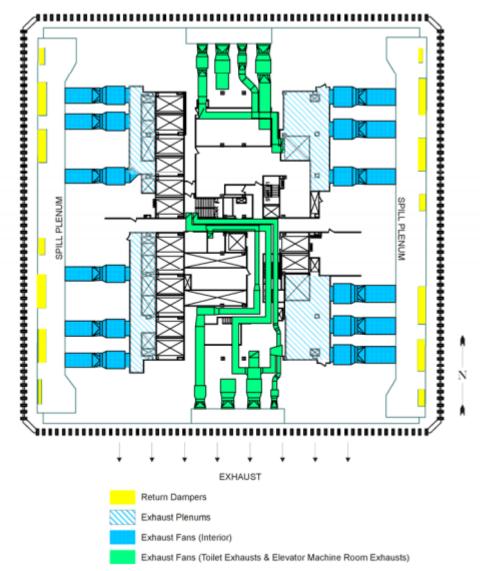


Figure 4-8. Exhaust HVAC units, upper level 75th floor MER, WTC 2.

Source: NIST NCSTAR 1-4D, p46. Original caption says "WTC 2," but the Twin Towers were just that. Turn this clockwise 90 degrees to align up as north for WTC 1. Green exhaust matches the location seen in the Staehle photograph of an east side event.

"Setbacks" were used for ventilation and protection from the elements, with only two safety rails in the empty window spaces. (Source: Merritt and Harris Property Condition Assessment, 2000 – download.) No smoke was observed emanating from the area(s) throughout the 102 minutes after the explosion, except "~24 seconds" after, on the west side.



Staehle photo detail

Also, with the doors sealed that meant nobody could investigate the 75<sup>th</sup> to 76<sup>th</sup> fl. MER **before** it exploded during collapse. How else to account for the completely (?) pulverized concrete? This stray thought is validated by quotes galore in the "Not Recovered" section.

See an exhaustive <u>collapse video collection</u>. If the buildings were somehow rigged for demolition, these floors – built with heavy <u>beams</u> instead of <u>lightweight trusses</u> – were primary targets. These floors essentially acted like the bases and tops of 3 sectioned blocks stacked on each other.

The North Tower 41<sup>st</sup> floor MER, however, was accessible. And attacked, apparently – although the witness didn't describe smoke or sabotage. (quote below) Supposedly the building's vibration and



Source: Wolfgang Staehle (Not in the FEMA/NIST reports.)

swaying caused the destruction, since... again... there was no way to blame it on the elevators. (Could one have fallen into its pit above? No, because how would its cable be cut if coming from only as high as 78?) Vibration may have been the cause of this, but swaying in the more-photographed South Tower reached only 30-40% "of the sway under hurricane force winds for which the towers were designed." (NIST NCSTAR 1, p. 148.) Granted, the North Tower was struck dead center on the wider side of the core.

"The 41st-floor mechanical room had sustained considerable damage – equipment formerly located in the ceiling

was down on the floor and water was gushing from crushed pipes. After ascertaining the room was vacant, Shearin proceeded to Level B-2, the location of the engineering office, and then to the lobby where destruction – to people and to the building – was devastatingly evident."

- Joseph Shearin, assistant chief of engineering at the WTC in "First on the Scene, The Unsung Heroes of September 11," <u>buildings.com</u>, 7/8/2002.

As a side note, consider a report that before 9/11 "Daria Coard, 37, a guard at Tower One, said the security detail had been working 12-hour shifts for the past two weeks because of numerous phone threats. But on Thursday, bomb-sniffing dogs were abruptly removed." (Curtis L. Taylor and Sean Gardiner, "Heightened Security Alert Had Just Been Lifted," nynewsday.com, Sept. 12, 2001, updated 2005.) Were these phone calls real threats or misunderstood warnings from people in the know, to whom nobody would listen? Take for example undercover FBI informant Randy Glass [mirror], who heard in 1999 specifically that "those towers are coming down." (historycommons.org/WPBF-TV Ch. 27, Palm Beach, FL, Aug. 5, 2002 [transcript] and Palm Beach Post, Oct. 17, 2002.). That may go hand in hand

with the story told by former WTC occupant Scott Forbes (and <u>Gary Corbett</u>), who reported an unprecedented "power down" in the South Tower midday Saturday September 8th through the afternoon of Sunday the 9th. ("<u>The Elephant in the Room</u>," Dean Puckett, 2008.)

No electrical power meant no closed-circuit surveillance TV... also a responsibility of the Security Command Center. (Carol Carey, "World Trade Center," securitysolutions.com, July 1, 1997.) To date, no 9/11 CCTV footage from the WTC has been made available. Maybe there was none to begin with – another purpose for the SCC being "taken out in that first strike." (Michael Cherkasky, Pres./CEO Kroll, Inc. on Larry King Live, CNN 9/13/2001 at 9:24 p.m. [We have no real reason to believe the OCC was targeted. However, the security

MALE: T-C, World Trade.

MALE: Go ahead, one.

MALE: Roger, be advised, myself and (Inaudible) B-4 level, and then we are going to go upstairs. Where do you need us ... uh, where do you need us at this time?

MALE: Start (Inaudible) a couple of units over to Two World Trade also, we got upper ... on the 90th floor, we got people stuck up there also. Plus the OCC on the 22nd Floor, One World Trade Center, I've got a couple of people that are (Inaudible) trapped up there.

There is debris in front of the door. (24:09)

WTC Ch. 26 Radio Channel W – Police, pa-transcript047.pdf

systems were supposed to be redundant with two locations. That was the whole point.]) What else was "taken out in that first strike" that was never investigated?

Remember how all the "out of service" elevators impeded the firefighters' efforts? Water for firefighting would become a big problem later when the water mains were ruptured by the collapses. That wasn't the beginning of water problems that day. This reveals another consequence of the mechanical rooms being electronically "emergency locked." "Each tower had three 750 gpm [gallons per minute] manually initiated electrical fire pumps, located on the 7<sup>th</sup>, 41<sup>st</sup>, and 75<sup>th</sup> floors to supplement standpipe pressures." (NCSTAR 1-4, p. 14.) Those were apparently as a result inaccessible.

FYI, "[t]he standpipes provided fire suppression water to pre-connected [125-ft long] hoses located in the stairwells at each floor." (Ibid.) In addition to the supplemental pumps, there were several 5,000-gallon tanks in each of the towers, as well as high pressure Fire Department connections (FDCs) at the base of the buildings... all to supplement the city water supply. The three standpipes (at one per stairwell) were not rendered useless by the 1st plane impact, even if they were all severed (an unknown clarified by the NIST as "likely" loss of 2 [stair A and C] and "possible" loss of B [Ibid, p. 38.]). "The manual fire pumps and FDCs could

have been used to supply water to the hose stations below the 88<sup>th</sup> floor" where there was an isolation valve. "However, the status of these systems was unknown and communications from above and below the impact zone were sporadic, making it unlikely that partial restoration would have been practical even if the procedure were documented ahead of time." (Ibid.) Hear firemen in WTC 2 talk about fighting fires on their radios (P.A. Audio Repeater).

"It was found that the emergency communications system used to make the emergency announcements was inoperable as a result of the aircraft impact. It was also learned by FDNY personnel upstairs inside WTC 1 that the warden phone system was damaged and the standpipe phone system was not operating." (NCSTAR 1-8, p. 46.) This combined with the poor quality FDNY radios caused problems, to say the least. (See "The Real Rudy: Radios." [mirror]) The same radios that had problems during the 1993 WTC bombing were still in use, with the exception of a repeater device designed to boost transmissions, which was installed in the top floor of WTC 5 by the Port Authority after the 1993 disaster. (Jim Dwyer and Kevin Flynn, "9/11 Tape Raises Added Questions on Radio <u>Failures</u>," New York Times, Nov. 9, 2002.) When the police first reported the north tower was "leaning" (NYPD aviation at 10:20 a.m. – NCSTAR 1-8, p. 37.), the lack of NYPD-FDNY radio interoperability prohibited communications between services. A scene from Jules Naudet's <u>camera</u> in the lobby of WTC 1 shows vividly how poorly the radios operated. "While chiefs in the north tower lobby issued orders to come down, they received no response." (Jim Dwyer and Kevin Flynn, op cit.) Since the repeater device was tested successfully before 9/11, its selective failure (in WTC 1) remains a mystery.

The SCC had a backup, the Operations Control Center (OCC). "Security Command Center was built on the 22<sup>nd</sup> floor of 1 WTC, backed up by a new Operations Control Center on the subgrade B1 level at 2 World Trade Center." ("<u>Testimony of Alan Reiss</u> before the National Commission on Terrorist Attacks Upon the United States," May 18, 2004, p. 4.)

"A new operations center will contain backup for the security command center, and the security command center will contain backup for operations center functions, including alarms, intercoms and elevator controls.

"Remote processors for access control and alarms at the parking garages, and workstations at the guard booths, parking office, visitor centers and security command center and other areas, are connected to a main, redundant file server."

- Carol Carey, "World Trade Center," securitysolutions.com, July 1, 1997.

At least a half hour before the first collapse, the OCC was evacuated. Why, we don't know exactly. "Male S2: S2 to SCC. / Male: S2! / Male: I want to tell you, the OCC is out. They had to evacuate (38:45) [about 09:25]." (Port Authority radio transcript) During that radio traffic, before the second plane hit at 9:03 A.M., a female was repeatedly calling the OCC with no success. Busy phones, I'll bet. It is important to know that the loss of the OCC during the 1993 bombing had been "one of the most significant events in the incident period" since "[t]he emergency response of the complex was based on the premise that trained OCC operators would be able to receive information from areas involved in an emergency and provide response instructions to trained people throughout the complex." (Dr. Richard Westfal, et. al., "The Explosion at the World Trade Center in New York, February 26, 1993," SoS Report 1996:20, p. 39.)

Regardless, as far as I know, the NIST investigation did not address the manner of the OCC evacuation. Perhaps the investigation glided over the SCC/OCC details on purpose. Was it 9:25 or earlier? It could be there was simply not enough info available.

The HVAC system (heating, ventilation, and air conditioning) was also controlled to an extent from both the SCC and the OCC. "A new Operations Control Center with the capability to monitor all HVAC systems and elevators in both towers was constructed on the B1 level of WTC 2." (NIST NCSTAR 1-8, p.17.) NIST NCSTAR 1-7 provided a chart listing reported conditions on all WTC 1 floors, which showed smoke on nearly all floors. This smoke was anything but helpful to rescue efforts. "HVAC systems that are not shut down during a fire, or are set in a mode that re-circulates air through the building, may directly cause smoke to spread through the building." (NIST NCSTAR 1-4, p.70.) Had the OCC remained occupied, and had the SCC remained intact, the HVAC issue could likely have been corrected. As the Port Authority fire safety video told us, a "smoke purge system" could have been activated to "draw smoke and fumes from tenant areas and simultaneously pump fresh air into corridors." NCSTAR 1-4: "smoke management systems were not initiated." (p. xxxiii) There was no reason to believe that the massive A/C system in the central plant on B-6 had been damaged.

Finally, the elevator systems – also monitored/controlled by the SCC/OCC (Carol Carey, Ibid.) – could have been utilized to dramatically improve response times. Of course building occupants were advised against using elevators. "Every elevator lobby contained a sign reading, "IN CASE OF FIRE USE STAIRS UNLESS OTHERWISE INSTRUCTED." (NIST NCSTAR 1-7, p. 35.) It was under direction of the Fire Department, who had special keys, that elevators could be used. (Ibid.) I've heard nothing of these keys in any reports.

2018 edit:

Special thanks for research put into this section goes out to Miragememories and NK-44 at the <u>Loose Change Forum</u> (<u>alternate version here</u>). More help in understanding the dynamics of such a complicated event comes from the ex-JREF <u>International Skeptics Forum</u>.

Questions remain. How did 22 get hit? Weak hoistway door and jet fuel? How about Akbar's and the refrigeration plant? Bottled jet fuel vapor in the halls? **Did** the seismic reading of the WTC 1 plane hit register two events 9 seconds apart? If so, **were** the jet fuel explosions really enough to register, when the 1993 bomb was not?

As for the question of WTC 2 having a similar series of events, we turn to mechanic Robert Jones and the ACE Elevator story. He was in the lobby when the second plane hit.

"At the moment, we were in B Tower. Not all personnel were there, naturally, because this was within a 15-20-minute period after A Tower was impacted. We had at least maybe two-thirds of the total personnel that were there – close to 70 to 80 people that work for Ace at that time. We had repair, maintenance and monitorization people there. So there was a big crew of personnel.

"In the lobby, some of the bosses were calling, they were taking head count, they were trying to figure out who was there, who was missing. They would come up with a name, they would call him on the radio. And in most cases, nobody was answering.

"Apparently, the radio system we had entailed a repeater that was stationed someplace around the towers. I think it was on the rooftop of 7 World Trade. And that was damaged, but some people were receiving calls, some couldn't.

"In the meantime, the bosses that were there in the lobby were trying to take a head-count, trying to consolidate their different groups, either repair or maintenance, trying to coordinate an activity where everybody would be in a certain spot in the lobby.

"I decided to walk over toward the south side of B Tower to look out to see what kind of damage was outside the building.

"And when I looked out, there was pieces of debris everywhere. And all of the cars, just about all the cars parked across the south, the other side of the street, on Liberty Street, near a small Greek church, they were all on fire.

"And there was only one person. I remember looking back and walking down the middle of Liberty Street, looking down at all these pieces of debris, I'm assuming body parts, 'cause I really didn't go outside at that moment, 'cause we were trying, everybody was being held within the building, in the lobby.

"As I turned around to go back toward the core of the building in the lobby, the second plane hit, and that shook the building.

"We heard the explosion and within a matter of seconds after that impact, I heard – and as well as everybody else heard – this noise, this increasing sound of wind. And it was getting louder and louder. It was like a bomb, not quite the sound of a bomb coming down from a bomber. It was a sound of wind increasing, a whistling sound, increasing in sound.

"I'm looking from the lobby up to a mezzanine area or the second floor where they lined up all the people to go up to the rooftop, and I'm looking up expecting something, building parts to be coming down, because I wasn't quite sure what that noise was.

"But I found out later, when the plane came through the building, it cut the hoist ropes, the governor ropes, of (the) 6 and 7 cars, which was the observation cars. [Cut cables 24 floors **under** the cars?] "Every night they would park those two cars up on the 107th floor. At the time the plane impacted B Tower, the observation deck wasn't open yet, which was another life-saving factor. At the time it impacted the building, they hadn't opened the observation deck.

"Had they, there would've been many, maybe another 1,000, 2,000 people on the rooftop, because it was a clear day. It was a beautiful day.

"What we heard was 6 and 7 car free-falling from the 107th floor and they impacted the basement at B-2 Level. And that's the explosion that filled the lobby within a matter of two or three seconds, engulfed the lobby in dust, smoke. [Has this guy never heard of <a href="mailto:emergency brakes">emergency brakes</a>? And it's B-4, not B-2.]

"And apparently from what I talked to with other mechanics, they saw the doors, the hatch doors blow off in the lobby level of 6 and 7 car.

"So right after that explosion, we were ordered to leave the building." - Source, www.

### **Black Boxes Somewhere**

The debris field and mass grave of Ground Zero was dug up so fast – or the damage was so incredibly severe – that the virtually indestructible "black box" (orange) flight data recorders and cockpit voice recorders from the 2 planes were never found (source – see also here) – a very rare occasion on land. Or they were secretly found.

Briefly consider the other 9/11 black boxes. The two devices were found for the Pentagon attack plane, American Airlines Flight 77. Yet the voice recording was allegedly not usable (images, source NTSB FOIA appeal 2012, 911datasets.org). Recent flight data recorder analysis contradicts early inaccurate interpretations which had fueled the ridiculous conspiracy theory of a flyover masked by internal explosions (see the data). Pentagon theories have long been the bane of the 9/11 Truth Movement – the poison in the well, so to speak (Frank Legge, BSc, PhD, "What Hit the Pentagon? Misinformation and its Effect on the Credibility of 9/11 Truth," journalof911studies.com, 2009). In the words of researcher Russell Pickering, "This



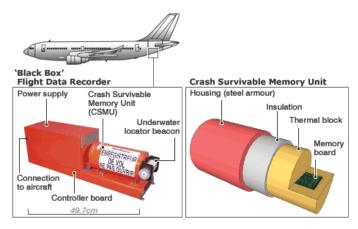
Posted at Ground Zero (source - see ex. 2 & 3 & 4)

plane/no-plane debate at the Pentagon is responsible for more division, destruction and disgusting behavior than any other 9/11 topic. It has deterred more of the general public from understanding the BIG PICTURE than any other aspect of 9/11."

For the Shanksville, Pennsylvania crash of United Flight 93, again the cockpit voice recorder (alt. version) and flight data recorder were recovered quickly. As opposed to the Pentagon device, the CVR was useful. Suspiciously, or to avoid disrespectful media dissemination, the voice recording was only shared at length with the victims' families in closed guarters... and the last 3 minutes were missing. (William Bunch, "Three-minute Discrepancy In Tape," philly.com, Sept. 16, 2002.) Also, NORAD and the 9/11 Commission place the crash at 10:03 while seismic data says 10:06:05 and the Federal Aviation Administration (FAA) 10:07 (historycommons.org). It has been argued the plane was shot down. This (or the plane breaking up after excessive velocity stress) may explain why the bits of plane debris field were spread over several square miles. Of course there are witnesses who described a plane – not parts of a plane – diving at a 45 degree angle. There were witnesses who said lots of things. Finally there is the inconsistent labeling on the two Shanksville devices. The CVR was labeled "AlliedSignal" and the FDR, "Honeywell." Details. It's probably nothing. See the NTSB Flight Path Study here.

In the New York cases of American Flight 11 and United Flight 175, a credible source said one of the black boxes (which?) was found electronically, just supposedly not recovered. This is despite a contradictory, corroborated claim by Nicholas DeMasi, firefighter (and "honorary firefighter" Michael Bellone). Read his story in the rare book Behind the Scenes: Ground Zero, by Gail Swanson, p. 108. (See Bellone's 2011 version.) Quoting DeMasi:

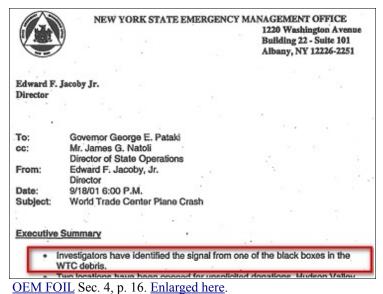
"At one point I was assigned to take Federal Agents around the site to search for the black boxes from the planes. [...] We loaded up about a million dollars worth of equipment and strapped it into the ATV. [...] There were a total of four black boxes. We found three." - Bryan Sacks and Nicholas Levis, "Firefighter Said Black Boxes Were Found at Ground Zero," summeroftruth.org, Oct. 27, 2004.



debris," said a Sept. 18 memo to Gov. George Pataki from New York State **Emergency Management Office Director** Edward F. Jacoby, Jr. (OEM FOIL Sec. 4, p. 16.) These investigators included "14 personnel" of U.S. Army's CECOM (Communications Electronics Command), in addition to FBI and USAR (Urban Search and Rescue). from whom "[a] ten-man team is using acoustic sensors and direction finders to locate the audio transmitters (pingers) on the recorders." (FEMA Situation Report #15, for Sept. 19-20, pp. 8-9) The NTSB (National Transportation Safety Board) was involved, too, helping to set up six observation/camera points to help guide FDNY and USAR

That "million dollars worth of equipment" helped locate the boxes using their waterproof, impact/heat resistant, built-in homing beacons. Underwater locator beacons. Being submerged activates them.

On Sept. 19 the New York Times reported that the "pinging" of one of the black boxes "might have been detected." (Susan Sachs, "At the Site, Little Hope of Uncovering Survivors.") **Confirmation**: "Investigators have identified the signal from one of the black boxes in the WTC



(apparently with laser pointers [source, Sept. 24-25 FDNY Incident Action Plan]) to the area(s) emitting the signal(s). All but two of these camera points were removed Oct. 21/22 (FDNY Incident Action Plans). That may just be our time frame for surreptitious black box collection by the FBI. Thanks to Caveman for his research into this matter. It's safe to say at least one of the devices was found, just maybe not retrieved.

One <u>article touting CECOM</u> (p. 24) went as far as to say, "Radio frequency detectors developed at CECOM were used to find 'black box' flight recorders from the airliners that crashed into the two towers." (Gen. Paul J. Kern, Commanding General, U.S. Army Materiel Command, "<u>AMC: Accelerating the Pace of Transformation</u>," AUSA: Army Magazine, Feb. 1, 2002.) It is now undeniable that one or more of the devices was located. Were they *retrieved*? Corroborating DeMasi's claim of a deception was a man named Mike Bellone. He told

his story on Jesse Ventura's "Conspiracy Theory" episode on 9/11 (TruTV, 2009). Bellone got a good time segment of the program, creating drama that amounted to nothing. DeMasi wasn't there. (screwloosechange. blogspot.com, 2009) ( See www.pnionline.com/...)

Bellone traveled the country with Ground Zero "artifacts" as part of a <u>supposed charity</u> <u>group for children</u>, as an "honorary firefighter." (<u>911myths.com</u>) Worse: "Fire marshals ... arrested Bellone, 51, of Brooklyn, N.Y., on Sept. 27 [2005], for having an FDNY Scott air tank, harness, regulator and mask. He was charged with grand larceny, criminal impersonation and possession of stolen property, but the charges were later dropped after Bellone returned the items." (Ed Zagorski, "New York 'firefighter' who delivered talk on 9-11 at Concordia was fraud," GM Today, Oct. 19, 2005.) Another report: "Fire Marshals arrested a self-proclaimed 'honorary firefighter' for allegedly touring the country with **pilfered FDNY gear to promote a 9/11 book**, officials said." (Carrie Melago, "9-11 'Hero' Swiped Our Gear: FDNY," NY Daily News, 9/28/2005. em. added) That must be the book that claims the black boxes were found.

"We had cases of people arrested as impostors. Absolute impostors that got their hands on some turnout gear." (Battalion Chief John Norman, 16<sup>th</sup> Battalion, in Eisner, op cit., p. 211) No comment from DeMasi.

Spokesmen for the FBI and the FDNY denied the claims of these two Ground Zero workers. (<u>historycommons.org</u> citing <u>Philadelphia Daily News, 10/28/2004</u>.) Finally, a third claim of retrieval:

"A source at the National Transportation Safety Board, the agency that has the task of deciphering the data from the black boxes retrieved from crash sites – including those that are being handled as crimes and fall under the jurisdiction of the FBI – says the boxes were in fact recovered and were analyzed by the NTSB. 'Off the record, we had the boxes,' the source says. 'You'd have to get the official word from the FBI as to where they are, but we worked on them here."

Dave Lindorff, "9/11: Missing Black Boxes in World Trade Center Attacks Found by Firefighters, Analyzed by NTSB, Concealed by FBI," CounterPunch, Dec. 19, 2005.

### An NTSB spokesperson denied this.

Where are the New York black boxes, then? Why were the alleged <u>murder weapons</u> <u>never identified</u> forensically? That is, including Flight 77 and Flight 93, each with no serial numbers on the black boxes (Aidan Monaghan, "<u>9/11 Aircraft 'Black Box' Serial Numbers Mysteriously Absent</u>," 911blogger.com, Feb. 26, 2008). Since the crashes weren't classified as accidents, the National Transportation Safety Board didn't have the burden of responsibility that the FBI did. Yet, a records search by FBI Record/Information Dissemination Section ("RIDS") section chief David Hardy uncovered no "documentation pertaining to any formally and positively identified debris" from the aircraft used in the attacks (Aidan Monaghan, "<u>FBI Records Chief Describes Unsuccessful Search For Identifying Records Of 9/11 Aircraft Wreckage & Flight Data Recorders</u>," 911blogger.com, Aug. 26, 2008).

Note: If while on YouTube or the <u>9/11 TV Archive</u>, you come across Dan Rather's <u>CBS News announcement</u> on 9/11 that one of the black boxes was found, be sure to find the follow up clip a few minutes later where he apologetically <u>withdraws the statement</u>.

2018 UPDATE to counter my claim above that it's undeniable. What are the chances the black box 80 or 92 floors up landed (or came to be) under water? How did the <u>beacon</u> survive its limit of 3,400 Gs (310 MPH impact) and an hour of 2,000 degree fire? (Remember deceleration since the black boxes were in the tail of the plane. To my knowledge nobody has figured out the speed of the tail of the plane at its impact.) Once activated in water, the beacon would emit ultrasonic pings every second – could that be detected deep in the pile?



NYPD Photo. From Above Hallowed Ground: A Photographic Record of September 11, 2001, Christopher Sweet, Ed., Viking Studio, 2002. "FBI - PLANE PARTS ONLY" No date. See the dumpster/collection area nearly empty during the "first four days of the rescue mission." Other shots of this dumpster/collection area include FEMA/Kurt Sonnenfeld, for example.

# **Airplane Debris**

"When we went outside building number four, we see plane parts all over the place. I used to work in aviation."

- Arthur Del Bianco, from his hospital bed on CBS Sept. 13 at 11:39 am. (mirror)

Conspiracy theories about drone aircraft "doubles" and/or doctored videos have suggested the plane parts found at Ground Zero were all planted... or from the wrong planes (sometimes both). Since there were so few parts found (only a handful mentioned/pictured in the official reports), and since plane-specific part identifications were avoided, these theories seemed possible to some. From the lack of evidence we got a surplus of theories. This chapter tries to sum up the evidence. (See Washington and Shanksville debris, some of it.)

Most of the planes were shredded and consumed by the buildings. Most of four virtually indestructible engines were lost in the "collapses." Blame the <u>Fresh Kills</u> high speed machine. Debris that was ejected outside into the streets was within 102 minutes buried beneath a blanket of dust with the pH level of drain cleaner (see section "Dust").

For 2 planes each composed of <u>3,100,000 parts</u> weighing at least <u>176,650 lbs.</u> (315,000 – 395,000 max take off weight [Wikipedia, "<u>Boeing 767</u>"]), relatively few components have been seen and photographed, in some cases saved for museums. As mentioned above

about the black boxes, what plane parts were found have **not been positively identified by serial number** as part of the *murder weapons*. None of those four weapons was ID'd by registration number; the ballistics tests were skipped. The NTSB (National Transportation Safety Board) may have given us this courtesy had they taken the lead in the case, but the secretive FBI was not so accommodating.

The NTSB was at Ground Zero in a limited capacity at first. From 9/11 to 9/26 only 3 investigators were on site. From Sept. 27 to Oct. 4 there was 24 hour support, 14 NTSB investigators among the FBI command post, 3 camera sites at Ground Zero, and Fresh Kills, working 12 hour shifts. October 4 – 17: 24-hour landfill support, 2 NTSB investigators per shift. Oct. 18 – Dec. 1<sup>st</sup>: One NTSB investigator per day. ("NTSB FOIA Appeal 2012-00001-A Nov 10 2011")

During this time, however, they did not create **any** "documents regarding the identification of aircraft parts of the four aircraft that crashed on September 11, 2001." (May 28, 2008 FOIA application to the NTSB by Elias



Red body bags utilized around GZ as receptacles for airplane fragments. (<u>Source</u>, unknown) See one of these bags full, closeup in a <u>photo by James McCloskey</u>.

Davidsson) What the hell were they doing while providing "technical assistance" to the FBI? Carol Carmody (Vice-Chair of NTSB) is quoted as saying on Feb. 27, 2002, "I realized this was not likely to be an NTSB investigation.... [I]t was obvious the disasters were not accidents." Regardless, FBI Director Mueller called and asked for some of her people to help find the black boxes and to "help identify aircraft parts." (https://app.ntsb.gov/news/speeches/carmody/cc020227.htm) She left out the part where [it logically follows] he said to refrain from identifying the planes with airlines' records of aircraft registration numbers. It wouldn't be necessary. Or, it'd be secret. (The airlines got sued even without that confirmation, and settled out of court. Even if they could have disputed the unauthenticated plane debris, they wouldn't dare argue with the official 9/11

narrative, especially when Congress capped the airlines' liability and gave the industry \$5 billion cash and \$10 billion in loans to "help stabilize the industry" only 10 days after 9/11. [Ed Epstein, "Congress OKs \$15 billion plan to aid airlines / Bill includes loan guarantees, liability limits from hijackings," sfgate.com, 9/22/2001, and Justin Bachman, "Why Two Airlines Are Still Fighting Lawsuits," bloomberg.com, 7/19/2013])

The NTSB's reply to Davidsson was that "the only records that the Safety Board possesses that are within the scope of your request



<u>Fresh Kills debris</u> sorting site 9/2001-7/2002, airplane parts in a pile. Source: <u>National Museum of American History, Smithsonian Institution</u> Another pile of parts was on CBS News here at vrt 2:50. (2011). Again.

are photographs taken shortly after the crashes at the [WTC] and the at the Pentagon [sic], a Video Data Impact Speed Study report, and a Debris Trajectory Study report for United Airlines flight 175." (NTSB letter to Mr. Davidsson, June 12, 2008, from Elias Davidsson, Hijacking America's Mind on 9/11: Counterfeiting Evidence, Algora Publishing, New York, 2013, p. 65) Like the FBI told Aidan Monaghan about his FOIA request: "The identities of the airplanes hijacked in the September 11 attacks was [sic] never in question, and, therefore, there were no records generated...." (Amend Compl. Inj. Relief #15 at 1 from "F.B.I. Counsel: No Attempt Made By F.B.I. To Formally Indentify 9/11 Plane Wreckage," visibility911.org 3/28/2008, em. added.)

"Following a certain number of flying hours or, in the case of landing gears, a certain number of takeoff and landing cycles, [certain] critical parts are required to be changed, overhauled or inspected by specialist mechanics. When these parts are installed, their serial numbers are married to the aircraft registration numbers in the aircraft records and the plans and scheduling section will notify maintenance specialists when the parts must be replaced. If the parts are not replaced within specified time or cycle limits, the airplane will normally be grounded until the maintenance action is completed. Most of these time-change parts, whether hydraulic flight surface actuators, pumps, landing gears, engines or engine components, are virtually indestructible. It would be impossible for an ordinary fire resulting from an airplane crash to destroy or obliterate all of those critical time-change parts or their serial numbers."

- Col. George Nelson, USAF (ret.), "Aircraft Parts and the Precautionary Principle," <a href="http://physics911.net/georgenelson/">http://physics911.net/georgenelson/</a>

There was and is no excuse. "But <u>radar tracked the planes</u> the whole way," some point out, "even though the transponders were <u>turned off</u> (AAL11)/<u>changed</u> (UAL175)." (hypothetical conversation) For one thing, <u>false data was displaying on FAA and NORAD</u> <u>readouts</u> for the "<u>war games</u>" simulations coincidentally scheduled that day. I don't know how or if primary radar could have been affected. But secondary, on the other hand....

Enter Flight Explorer, a web-based program linked to real-time FAA data, which showed LIVE on TV **UAL175 still in the air** over the New York/Connecticut border after the WTC 2 collapse! (As seen on MSNBC at 10:25, 9/11/2001 [mirror]) Speaking of UA175's confusing change of transponder and then course, the air traffic controller said (in paraphrased notes of the 9/11 Commission staff): "Sometimes' controllers lose targets on planes for periods of time; so Bottiglia noted there could have been a radar technical error." (9/11 Commission Memorandum for the Record, FAA New York Air Route Center interview with David Bottiglia, Geoffrey Brown and Miles Kara Team 8, Oct. 2003) Hear from the Air Traffic Controllers or study transponder and radar data (mapped here). Either way, why NOT identify the parts to verify they matched the suspected aircraft?

Col. Nelson "never witnessed nor even heard of an aircraft loss, where the wreckage was accessible, that prevented investigators from finding enough hard evidence to positively identify the make, model, and specific registration number of the aircraft." (Nelson, op cit.) Either the planes' identities were discovered (good or bad) and kept quiet, with the processes all undocumented at both NTSB and FBI, or the ID effort was resisted and suppressed from the beginning, deemed "unnecessary" by those in charge. Why the resistance?

The best physical evidence recovered that has been specifically tied to the planes (I should say flights) reportedly used on 9/11 is the DNA of the <u>victims reportedly aboard</u>. Certain conspiracy theorists quietly claim this evidence was planted also. As of April 30, 2004 per the Office of the Chief Medical Examiner of New York City (OCME), of the <u>AA Flight 11</u> total 87 dead (not including 5 terrorists), 52 were ID'd, 45 of those by DNA. <u>UA Flight 175</u>: 60

died (not including 5 terrorists), 27 ID'd, 26 by DNA. (Robert C. Shaler, Who They Were – Inside the World Trade Center DNA Story: The Unprecedented Effort To Identify the Missing, Free Press, 2005, p. 302)

Take for example Lisa Frost from seat 22A on United Flight 175. "In the end, a bone fragment, a skin-tissue sample, part of the right hip, and part of a collarbone were found." (Alejandra Molina, "Rancho family honors daughter lost in 9/11," <a href="https://ocregister.com">ocregister.com</a>, 8/21/2013.) That means these four pieces of Lisa were each identified by DNA. Then somebody somewhere found Lisa's frequent flyer "United Mileage Plus" card. When Lisa's father

received it in an envelope from the Fresh Kills sorting site, he sent it off to be kept in the New York State Museum in Albany. (Karen Bjornland, "9/11 Always Hits Home at the New York State Museum," dailygazette.com, 9/1/2011) If somebody planted all that evidence to prove Lisa's flight hit the WTC – that was overkill, literally.

Also aboard Flight 175 was Ruth McCourt and 4-year-old daughter Juliana. Ruth's red pocketbook was recovered from the ruins, as the Newseum exhibit describes. "Ruth's remains were identified by dental records a year after the attack. It took three more years before little Juliana's remains were identified using DNA." (Eoin English, "What did it achieve?' ask Cork brothers who lost sister and niece," irishexaminer.com, 9/12/2011)



Flight 175 passenger Lisa Frost's frequent flyer card. Cropped photo shot 9/19/2012 at the "A Global Moment" exhibit at the National Corvette Museum in Bowling Green, KY (Source)

A driver's license and credit card turned up from AA11 <u>passenger Judy Larocque</u>, Smithsonian says. "The FBI recovered these cards from the debris," which means Fresh Kills. Larocque's remains were found, says an <u>npr.org</u> <u>article on her daughter</u>: "She could be having dinner, and get a phone call that they found another piece of her mother's remains." (Tovia Smith, "Daughter Channels Sept. 11 Grief Into Film, Activism," npr.org, 9/7/2011)

"The New York medical examiner's office said in a statement that it had now identified remains of Karen Ann Martin, the 40-year-old head flight attendant on American Airlines Flight



N612UA, "Flight 175" Source: <u>airliners.net</u>, wheels Photoshopped out. The flight (not the plane) was identified by passengers' DNA – identified by the <u>contested flight manifests</u> listing all passengers. No theories implied.

11, which slammed into the trade center's north tower. Remains of Douglas Joel Stone, 54, who was a passenger on the same flight as Martin, were also identified." ("Remains of two 9/11 victims identified," <a href="mailto:cnn.com">cnn.com</a>, 11/2/2006) More passengers were certainly identified among the rubble, but there is no such list, besides the one I made (<a href="mailto:article">article</a> or <a href="mailto:video">video</a>).

Those who wish to disqualify the evidence from the planes cite a lack of chain of custody reports and imperfect security at Ground Zero: "Security was a major issue for us. [...] Rescuers spent hours and hours and hours waiting [in] line to get their IDs so they could get down into the site. When they get there, they'd see other people walk right past them with no ID at all...." (Battalion Chief John Norman, FDNY 16<sup>th</sup> Battalion, in Eisner, p. 211) But "They" could have gotten an ID, no problem. For the chain of custody reports, we'd be talking about different methods of delivery to the FBI. Like dumpsters. (In addition to the one seen above, there was another with yellow paint labeling it, as seen in "Three Nights at Ground Zero" at 19:43) and one with green lettering otherwise unseen, plus a dump truck with red spray paint on back (no further info and no look inside). The OCME accession documentation with ID results and any applicable GPS data would be nice to have for all 21,906 remains, right? To get that including the people's names would require lawyers and money.

One commendable documentation situation came from the PAPD (Port Authority Police Dept.) about two minutes after the first plane struck, when WTC Director of Department of Operations and Maintenance Alan Reiss found in the street outside WTC 5 "the nose gear of an airplane, missing the rubber tire, but with its wheel still connected to the hydraulic elbow that retracts into the bottom of the plane. [...] He and [detective Richie] Paugh lugged the part into the police office. 'It's evidence, put a sticker on it,' Reiss said." (Dwyer and Flynn, 102 Minutes, op cit., p. 20, emphasis added) I wonder if that's one of the pieces sitting in the New York State Museum storage, or if it was serialized "time-change" equipment and had to be locked away or buried. (Are any serial numbered parts in museums? And if so, would the necessary resources still be available to make an ID?)



N334AA, "Flight 11" on 4/8/2001, Source: Wikipedia. Paint is limited to lettering and stripes. Shiny aluminum prevails.

While not specifically linking the two planes/flights N334AA/ AA11 and N612UA/ UA175 to 9/11, other physical evidence found on the streets around Ground Zero can be shown to have originated on aircraft coming from Logan Airport in Boston, like both 9/11 NYC flights. Two pieces of mail (among thousands of pounds' worth) were on the usual route for the U.S. Postal Service – mail sent to southern California from the northeastern U.S. shipped by

airplane from Boston. On Sept. 10, Jane Gaillard of Cape Neddick, Maine mailed a wedding rehearsal dinner invitation to her niece in Los Angeles. "Two other invitations she mailed to Los Angeles that day never arrived. The niece received hers a couple of weeks later, sent by a man from London who enclosed a note saying he had found it in the streets of New York." (Pam Belluck, "One Letter's Odyssey Helps Mend a Wound," New York Times, 12/20/2001) Also 911memorial.org has a photo and story. Out of that thousands of pounds of mail, one other piece survived somehow. Also on Sept. 10, Donna Snyder mailed a letter from Rochester, NH. It was sent to Irvine, California carrying a check for payment of \$170. Then on Oct. 12 it was in her mailbox, inside another envelope with a note saying it "was found floating around the street in downtown New York!" Security guard Larry Toto Sr. found it 2 days after the attacks "on Cedar Street about a block and a half from the trade center site." (Ibid.) Are there any records of either flight carrying mail that day? That is, besides these two letters?

The last seconds of these two flights may add insight when looking at the debris. As for images of the planes on 9/11 before impact, there are more than 40 <u>photos</u> and at least 61 <u>videos of the 2nd plane</u>. For <u>the first plane</u> there is one famous video and two lesser known glimpses.

Speed estimates are all over the place. Flight 11 was traveling about 470 mph and United 175 about 590, according to <u>FEMA 403 Ch. 2</u>, p. 31) The NIST said impact speed for AA11 was  $443 \pm 30$  and UA175 was  $542 \pm 24$  (NCSTAR 1-2B, p. lxii). See also "<u>The last 1.2 seconds of Flight AA11</u>" by Achimspok for one researcher's input, using the Staehle photo and Naudet audio to be more precise: 496 mph.

"Two studies have analyzed the speed of the planes, one by the Federal Aviation Administration in consultation with the National Transportation Safety Board and the other by Eduardo Kausel, a professor of civil and environmental engineering at Massachusetts Institute of Technology.

"Both found that United Airlines Flight 175, which hit the south tower at 9:02 a.m., was traveling significantly faster than American Airlines Flight 11, which hit the north tower at approximately 8:46 a.m.

"The government's calculations put the speed of the first plane at 494 mph, and the second at 586 mph. The MIT analysis determined the first plane was traveling 429 mph, and the second 537 mph, The Times said." - Brian Dakss, "Speed Likely Factor in WTC Collapse," <a href="mailto:cbsnews.com">cbsnews.com</a>, 2/25/2002

So don't expect to see the tail of the plane sticking out of the gash in the tower (see #1 and #2), or anything identifiable for that matter. Who knows what we should expect to see, but computer modeling has *tried* to simulate the crashes. Thanks Purdue University for their interesting animation work. ("Purdue creates scientifically based animation of 9/11 attack," purdue.edu, 6/12/2007) Z-Axis Litigation, commissioned by Silverstein Properties to support its insurance lawsuit in 2004, used an estimated 500 mph for AA11 in their animation. For UAL175, 550. In that last one I noticed their 11° lateral



Aircraft fragment. Photo by John Labriola, on the street below the towers before either collapse. <u>Source</u>: Smithsonian Institution website

angle. Fail. (See "Investigations: Second Plane Impact Error.") The point of this paragraph is that the planes were shredded.

Our airplane part inventory: Touch and hold a platter-sized piece of one of the planes at the <u>Ground Zero Museum</u>, apparently, <u>as did these children</u>. No criticism implied; hands on learning is good. <u>Collected at Fresh Kills</u> on Staten Island were "probably a hundred pieces of fuselage, some of the windows in [them] still...." ("Collateral Damages," Ibid.) Two pieces are presently on display at the <u>9/11 Memorial Museum</u> (the bigger of which is <u>seen here</u> also), but there's no telling where they were found... like the parts listed on the <u>Smithsonian's website</u>.

On that subject see the <u>FDNY Phoenix Unit's map</u> of GPS data, including a whopping 5 pieces of aircraft. (Source: David Cole/ NYCLAW FOIL 2011) That doesn't include the location log and <u>GPS data from FOIA 12-073</u>, which lists one "SHIRT WITH AMMERICAN AIRLINES TAG # W 107551" [sic] from grid L13 [see map, also <u>App. 2</u>] and one "FLIGHT MANUAL - PD CONFISCATED, TAG #W03672" from grid L10. [Aside: Who misspells AMERICAN?] Also found: "CIVILIAN HAIR AND SCALP ATTACHED TO PLANE PARTS ON ROOF OF 130 CEDAR ST.EAST. BODY PART FOUND ON ROOF OF 130 CEDAR ST.TAG #107338." Two descriptions in the spreadsheet say only "aircraft parts" and one says "possible aircraft part" in I11. Another, possibly this one seen in a museum: "Airplane (electrical) parts found. Log records grid as J14. Tag # 3973." Another: "Airplane part, hydraulic piston Tag #W107820" in F13. I wonder where the <u>American Airlines slipper</u> was found. (Source, #5 and mirror)

Second-hand reports involving plane-related body parts <a href="here at historycommons.org">here at historycommons.org</a>: <a href="severed hands still bound">severed hands still bound</a> (no images), a row of seats with passengers buckled in (?!), an airline's metal wings pin still on a flight attendant's lapel (found by our friend Black Box Mike



Fuselage of the first plane that went all the way through the building. Photo by Todd Maisel, from <u>WTC: In Their Own Words</u>, Harvey Eisner, Ed., Ibid., p. 82. Seen also in a <u>video by New York Daily News</u> on YouTube. There are 3 more angles of this as far as I know. <u>1</u>. and <u>2</u>. (likely Todd Maisel/NY Daily News) and <u>unknown</u>.

Bellone). Many photos and stories involving plane parts are collected here on one page.

Returning to the scraps of fuselage: <u>Another</u> from NYSM. See another museum piece of AA11 skin, <u>back [mirror]</u> and <u>front [mirror]</u>, the latter of which has a sign saying "[illegible] by Port Authority Police Department." Sorry, no identifying colors on this piece. Conditions at Ground Zero weren't favorable. It's odd that the more identifiable piece seen here was not selected. Moving on, there's a <u>piece of one of the planes</u> at the FDNY Fire Museum.

Notice some of these parts have a yellow-green color, mostly seen on the inside-facing surfaces but also beneath exterior paint. "Airplanes then get a very complete interior primer coating of paint called zinc chromate or zinc oxide. These primers are generally light green to dark green in color." (Eric B., Aviation Curator, Intrepid Sea, Air, & Space Museum) For whatever reason, investigators chose a yellow spray paint to mark the parts for saving.

See one such <u>fuselage scrap</u> at the Smithsonian site. Other <u>parts at the Smithsonian</u> Institution American History Museum (online) include a <u>scrap from one of the plane's fuel tanks</u> in the wing (<u>Source</u>), a seat belt said to be from AA11, a wing strut (also seen above in the Fresh Kills pile), and another two bits of fuselage. "Source: Transfer from the [FBI]."... who most likely pulled everything straight from the Fresh Kills recovery site.

"We have had unusual cooperation from the FBI, for example. There have been objects that have been transferred to us from one federal agency to another. The FBI deemed that transfer would not break the chain of evidence for example." - Jim Gardner, Project Director, Smithsonian [chain of \*cough\*]

Many of these parts were <u>photographed at Fresh Kills</u> by <u>Mark Schaming</u>, Director of Exhibitions at the New York State Museum, possibly some taken by filmmaker Etienne Sauret. ("Collateral Damages," op cit.) Another camera recorded the pile at Fresh Kills, as seen on <u>CBS News here</u> at vrt 2:50. (2011) A specialist from American Airlines, <u>Jim Haase</u>, was on site at the sorting facility to assist in identification of possible airliner debris. To clarify, he was there to discern what was airplane and what was building debris.

On the street below the towers: possible <u>AA11 fuselage window frame</u> (<u>blue</u>) (<u>continued</u>) and an <u>unknown scrap</u> (yellow-green) among blood. [NYPD photos from 911datasets.org NIST FOIA release 8] Here's one piece in police hands at Ground Zero.

See one unusually <u>colorful UA175 fuselage section</u> (from beside a door it seems, since windows have no red stripe), <u>another scrap</u>, and a brown <u>wing section</u> pictured at the <u>New York State Museum</u> website, with some other airplane debris, including <u>2 seat belts</u>, one with



Photo inset by Louis Briendel compared to a 767 landing gear by George Shay on NY1 (0:58). Photo by Charles Marsh.

armrest attached. These are different than the seat belt at the Smithsonian "from a crew member's jump seat on [AA11]" and different than this one in the dirt at Ground Zero (assumed). One error to point out at the NYSM site: the image of an engine part [mirror] said to be "possibly part of landing gear." (We'll look at engine parts soon.)

One landing gear part at the NYSM site comes from "the main gear truck. It includes the brake, a wheel, and a portion of a tire." (possibly the Reiss/PAPD find before 9:00 a.m., but no "sticker") [More images on flickr (2) (3).] That NYSM caption for the landing gear image goes on to say 2 pieces of landing gear were found after the attacks, but it was more than that, if we include the NYSM example possibly from Reiss and the PAPD, as well as: 2. the one that fell through the roof at 45 Park Place/Burlington Coat Factory mentioned by FEMA/ASCE (map source PDF, FEMA Ch. 1, p. 6) and photographed by Kukiko Mitani (and anonymous, and at the NYSM), 3. the one with the big tire at West and Rector St., from AA11 (official source PDF, FEMA Ch. 2, p. 19 but also found in video by Etienne Sauret, and pics by Charles Marsh, etc., 4. the one found on top of the Federal Building/ U.S. Post Office. Louis J. Briendel (hear story) shot some photos of it and some other parts. "... I noticed what looked like an airplane part. I picked it up and it had a serial number on it and something in writing "hydraulic piston." (Louis Briendel, "Airplane Parts



Aircraft component in the dumpster in the first few days. Source: Photo by James McCloskey



An exterior column section from WTC 1 with an embedded airplane wheel, beside St. Nicholas Church on Cedar St. at West St. WTC 2 is in view. NYPD photo, cropped (from 911datasets.org NIST FOIA 09-42 release 8)

from 9/11," 911blogger.com 12/12/2005, em. added) Briendel captured an <u>engine turbine ring</u> (and <u>engine misc.</u>) also. **5.** What could be *another* example of landing gear (strut and wheel hub separate) sits in the Newseum in Washington D.C. in the exhibit "<u>War on Terror: The FBI's New Focus</u>." (2011. The name has since changed).

Broken from its axle stood a <u>wheel, embedded</u> in the window of a 3-story WTC 1 exterior column section dislodged and blown down onto the pavement. [NCSTAR 1-2, p. 274 [mirror, high res] See <u>another angle</u> with the above pictured fuselage in the background. Another angle here. (NYPD photos) Find a massive collection of details and speculation surrounding this evidence at <u>cryptome.org</u>. The ultimate conspiracy theory about this wall panel is described in a video by Steve De'ak aka Yankee451: "<u>St. Nicholas and the Amazing Flying Wall Panel</u>," which asserts the wheel *and* the steel were planted! In response to that, I made the 1<sup>st</sup> plane hit collection and North Tower south side views video, looking toward the smoking hole where the above pictured fuselage must have exited (also features plane debris). Another point: look at the <u>smoke/dust trail</u> from the back of WTC 1, blowing northeastward (about 15 seconds after impact). View from southeast. That could have only come from the south side, where an object with a lot of surface area fell with dust and debris from the area of the impact floors. Behind that shot *flaming* objects that <u>lit at least one vehicle</u> on fire.



American Airlines life vest and jump seat (enlarge) south of the towers. Source: Lance Boyle (beware Photobucket ads)

The roof of the Banker's Trust building (<u>Deutsche Bank</u>,130 Liberty St.) caught American Airlines <u>life vests</u> (one of 2 <u>was burned</u>) and what's believed to be an airplane <u>seat cushion</u>. (<u>Source</u>: 911datasets.org release 37, 42A0525 – G38D4, WTCI-63-FEMA, CD1) <u>One other seat cushion</u> (assumed) in the street was captured on film 2 blocks south of WTC 2 by NYPD (see <u>another</u>). One may wonder why some life vests were yellow and one was orange. I'll speculate the orange one was for the flight attendants' jump seat seen above.

One <u>unverified discovery</u> on a non-specified rooftop claims to be an "aircraft component," so a Google search might pull up <u>this image</u> of a metal pipe. Also <u>seen on flickrhere</u>. Categorize it as "unidentified." Some <u>bits photographed by the NYPD</u> (<u>Above Hallowed Ground</u>, Ibid., p. 68) include another fuselage scrap, an "actuator," some of an engine turbine, and an airplane seat belt. Also included is another "<u>actuator</u>." <u>Col. Nelson mentioned</u> actuators enabling serial number IDs.



Frank Van Brunt stands behind his discovery on April 24, 2013. Police tried to move it with a rope and left it hanging there for a <u>widely publicized photo</u>, which led to some controversy. <u>Source</u>: New York Daily News

On April 24<sup>th</sup>, 2013 there was property surveying being done about 4 blocks north of the 9/11 impact on WTC 2, which led to the discovery of a 4 foot by 17 inch by 5 foot (LxWxH) "trailing edge flap support structure" from the wing of a 767. (See a diagram detail.) It was not a landing gear as was widely reported by CNN and others {and corrected}] (NYPD Deputy Commissioner Paul Browne on radio with WCBS-AM 880 and "New search for 9/11 remains begins where piece of hijacked plane was found," Daily Mail Reporter/AP, 4/30/13)

For 12 years this massive plane chunk lay in an unused 18 inch-wide space separating buildings at 51 Park Place (think Ground Zero mosque) and 50 Murray St. It had been ejected from a window space between columns 22 inches wide\*... a possible feat considering the mechanism's vertical configuration on the plane. (\*It could not have gone with the engine out the corner – details soon.) Get another angle, and another profile [3.]) when the thing was removed, courtesy NY Daily News.

As far as naming it incorrectly at first, remember landing gear from the 2<sup>nd</sup> plane hit 45 Park Place on 9/11. Right next door.

"Boeing confirmed on Sunday that the rusted five-foot plane piece is in fact a part of one of the

aircraft that crashed into the World Trade Center more than a decade ago." (<u>Daily Mail Reporter</u>, op cit.) That's inaccurate and misleading, but after 4 sentences and a bunch of pictures the article says it isn't possible to determine which plane. It was the *type* of plane used on 9/11.

Another article shows a <u>number stamped</u> into the metal. "That number – BOEING CSTG 65B84045 – is a "casting number" not unique to the part or to the plane, said Alan Lery of Turbo Resources International, an Arizona aircraft-parts seller." (Bill Sanderson, "'Serial #' is no tell-tale evidence," <u>New York Post</u>, 4/28/2013) That's like a part number that gets stamped on numerous components of the mechanism. When consulting the 767 Illustrated Parts Catalog, we get specifics (no illustration, sorry [try this]):

"65B84045-1 .CLAMP

ACTUATOR INSTL-TE FLAP DRIVE POSITION NO.4 AND NO.5 27 - 51 - 05 001 50 3 65B84045-1 .CLAMP

03D04043-1 .CLAIVIP

ACTUATOR INSTL-POSITION NO.3 AND 6 TE FLAP DRIVE 27 - 51 - 11 001 30 3

65B84045-1 .CLAMP

ACTUATOR INSTL-POSITION NO.2 AND 7 TE FLAP DRIVE 27 - 51 - 22 001 45 3 65B84045-1 .CLAMP

ACTUATOR INSTL-POSITION NO. 1 AND 8 TE FLAP DRIVE 27 - 51 - 22 002 35 3"

- Aircraft aficionado CALTECH on the forum at airliners.net

The only other plane part with a complete, legible number was discovered by the research community on archived television. specifically CNN 9/12 at 1:09 a.m. (mirror) The day of the attacks a small numbered bracket was found. Using the Boeing 767 parts catalog, it was identified independently years later as coming from a Boeing 767. Note that the diagram with photo supplementing that original ID at JREF was drawn incorrectly, so I've corrected it in this image. On the plane – which one is a guess – the little bracket was located here near the front, serving as part of the "LE slat control system."



A small part from one of the planes rests atop a vehicle under guard by police, after the collapses, some 1,100 feet from the south wall of WTC 2. Source: CNN

Exactly where the part was found is unknown. Due to the <u>long distance</u> from WTC 2 (the closer, more logical source) to where it was videotaped at rest, it's possible somebody found it, carried it for a while, and left it. <u>ldeas on the matter</u> point toward the origination during the 2<sup>nd</sup> plane hit. Yet we saw several parts from the first plane after traveling through WTC 1. Boeing part CSTG 256T1115-2 (same as -1 in the 767 parts catalog) was likely picked up off the street somewhere, before the collapses and subsequent dust blanket, then set down on the vehicle and pointed out to authorities.

Among other items handed to authorities, there was the Saudi Arabia passport of Flight 11 hijacker Satam al Suqami. ("Terrorist Hunt," ABC News, Sept. 12, 2001 [cached].) See photo/scan of the passport cover here from the government. Look inside and hear all about Suqami's history and how "[a]irline check-in personnel remembered that Suqami, the only hijacker who did not have a state-issued identification, used his Saudi passport as check-in identification for American Airlines Flight



Not necessarily the hijacker's passport. Photo by Chris Sorensen, cropped. Source: NIST [mirror]

11." (Janice Kephart, "The Complete Immigration Story of 9/11 Hijacker Satam al Suqami," Center for Immigration Studies [cis.org], Sept. 2010)

Funny, the CNN <u>News anchor announced the discovery</u> of the passport appended by "**if you can believe that**." The tale became professional comedy material in French celebrity Jean Marie Bigard's <u>9/11 Black Humor</u>, part 1: "Les passeports magiques." (He says there was dust everywhere, so he didn't know it was found before the collapses.) It's funny the

passport was found so easily because getting all the proof of terrorist hijackings we expected from the FBI was like pulling teeth... with a lasso in the dark.

"If you want evidence I'll be happy to – oh, I can't, I guess. The FBI controls it."
- Assistant Secretary of Defense Paul Wolfowitz, Press Conference at NATO headquarters, 9/26/2001

Basic evidence/ proof was not forthcoming: 1. Original and authenticated passenger lists/ flight manifests. Media filled the gap and investigated to build partial lists, which grew and shrank as errors arose. See the 9/11 Myths take on the [AA11] passenger lists. Somewhere there were/are official American and United Airlines lists including all passengers, crew, and hijackers for each plane, printed/dated 9/11/2001. Right? The closest thing we have seen came from a 2005 book by Terry McDermott, Perfect Soldiers: The 9/11 Hijackers: Who They Were, Why They Did It, which had scans of lists obtained from the FBI. Four years afterward, and not authenticated, but they will have to do. (Since their publication these lists haven't been confirmed by the airlines.)

"Authenticated passenger lists were not provided to the Congressional Joint Inquiry of 2002 or the 9/11 Commission and were not presented as evidence in the trial of Zacarias Moussaoui. It must therefore be presumed that no authenticated passenger lists for the four 9/11 flights exist or that whatever lists the airlines and the FBI possess do not correspond with the official allegations." - Elias Davidsson, <u>Hijacking America's Mind on 9/11: Counterfeiting Evidence</u>, Algora Publishing, New York, 2013, p. 44 [Davidsson submitted an FOIA request but was denied.]

For United Flight 93 we did see a unique collection of the boarding cards/ tickets (absent one, but including terrorists) from 9/11 Commission files including a fax from the airline. Also unique to Flight 93 is another flight manifest, but from the 9/11 Commission, found in records released in 2009. Where are the Boston Logan tickets for the WTC flights? What should we make of the Mohand al-Shehri boarding pass found in the trash at Boston Logan Airport, on display at the 9/11 Museum? Read more at 911research.wtc7.net.

- 2. Authenticated airport video surveillance with proper time stamps from the terminals and elsewhere. What we saw was *Portland, Maine* airport footage of Atta and Alomari on their way to Boston for connecting Flight 11; and even that is suspicious. (more suspicion two conflicting time stamps, etc.) There is/was **no** Boston Logan footage for AA11 or UA175 and **none** from Newark for Flight 93. At Washington Dulles International Airport the Flight 77 hijackers were allegedly captured (emphasis on allegedly) on security video at a checkpoint (no time stamp and no camera ID number). The [only] video was released in 2004 simultaneously with the 9/11 Commission's one and only "Final Report" and "obtained from the Motley Rice law firm, which is representing some victims' families suing the airlines and security industry." ("Sept. 11 panel criticizes Dulles security screeners," nbcnews.com, 7/22/2004) CNN excused the general lack of footage by saying, "Washington Dulles was the only airport to videotape security checks." ("Video shows 9/11 hijackers at airport," cnn.com, 7/20/2005 (should be 2004) But they weren't the only airport to *videotape*, right?
- 3. Plane parts tied to the planes specifically by serial numbers. It shouldn't have taken more than a few days (?) to check records against parts found on 9/11. This never happened.

For all of this doubt in the hijacker tale of 9/11 – which could have been put to rest with the above 3 items – to have the supposed coup de grâce fall from a fireball in the sky and land on the street intact... is funny and, as the <u>CNN anchor</u> implied, hard to believe.

What about that passport draws suspicion, besides its serendipitous presentation as

<u>"magic" evidence</u>? Generally speaking, people imagined it being found at Ground Zero among acres of debris and streets full of dust and papers; people didn't know it was found before either collapse. Also people didn't take into account the <u>physics of air traveling through the building</u>, accelerating while clearing a path through the center of the building, pushing out an entire 3-story 3-column steel section of windows and the passport, among other things.

Was finding it a "<u>miracle</u>" because no other passports were found? That is not so, from the looks of the pavement strewn with shrapnel in the picture above. (To <u>see the photo</u> on wtcdata.nist.gov you'll need to click that url and then Continue if you agree to the terms. [<u>mirror</u>]) The lightly colored paper and characteristic size give it away. Who knows, perhaps it was Suqami's. Still that was not the only passport found. In the 2012 <u>NYC FOIA of GPS data</u> for human remains and equipment found at Ground Zero, the word "passport" returns 3 results. Were any from the planes?

Without further ado, the gentleman who discovered the passport, <u>Rich Wozniak</u> describes his memories:

"I was now outside the Bankers Trust (130 Liberty St.) building approximately 100 ft. or so away from the entrance of the main tower. I could hear objects hitting the ground around me so I decided to work my way around the back of the building and now I had learned what had happened.... I was standing in the middle of what were the remains of a passenger aircraft. There were seats and engine parts smashed through car windows everywhere. What seemed to be an engine was embedded into the sidewalk and body parts were strewn all over the street. Then I looked down to my feet and picked up a passport. It was a Saudi passport. It was green with Arabic writing and as I opened it and saw the man's face inside it and I felt as if I were looking into the eyes of someone that may have been part of the terror that I was witnessing around me and I later learned that I was right as I passed it off to an FBI agent that was standing a block away on West side Hwy who immediately took it from me."

- Rich Wozniak (and Michael Fackerell, per the 4/8/2007 article "9-11 Testimony")

On the receiving end was a chain of people including first the



Airport security video from Portland, Maine on 9/11 (since there is no Boston footage). From "NORTH TOWER Ch11" by German researcher Achimspok. Released frames from the Moussaoui trial: 1., 2., 3., 4.

NYPD detective of the 5<sup>th</sup> precinct (not "an FBI agent"), then to a detective on the Joint Terrorism Task Force named Marty Mann, who passed off to the FBI, including agent Dan Coleman, who recalls:

- "...first day we had the passport of Satam al-Suqami. That was given to a New York City detective from the fifth precinct that was down there, trying to talk to people as they were coming out to the buildings. And it was handed him [but] by the time he looked up again, the guy who had handed it to him [had] run off, you know, which made sense. And that passport was given to a detective on the Joint Terrorism Task Force. So, by that evening we had it, the detective Marty Mann, from a detective of fifth precinct had given it to him and it was bagged up, and you know. But it was also -- we realized by then, because we'd gotten some communication back with headquarters that this was the passport of one of the people that headquarters had identified as one of the 19 probable hijackers."
- "FBI agent Dan Coleman explains how the passport of 9/11 hijacker Satam Al Suqami was 'found'," 911blogger.com, ReOpen911France, 11/14/2011.

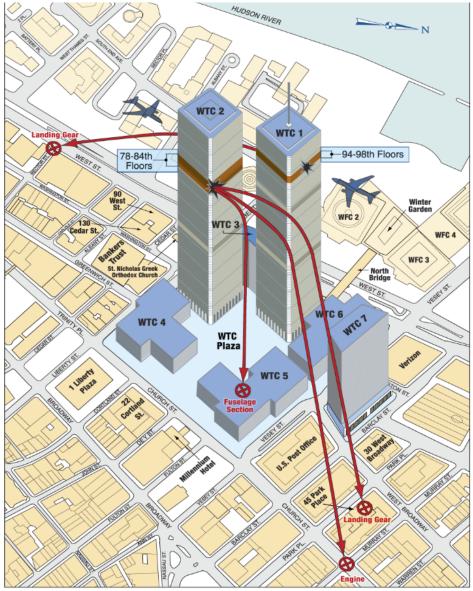


Figure 1-4 Areas of aircraft debris impact

FEMA 403 Ch. 1, p. 6 - "Fuselage section" should be "sections" plural.

## **FEMA'S FUSELAGE FIB**

When investigators went to the roof of WTC 5, they found two pieces of fuselage from what we call UA175. One of the two is the biggest known fuselage fragment found in all of Ground Zero – and has since disappeared, if the lack of photos in 17 years says anything. These both sported the color of <u>lettering of the United plane</u> (white on gray), making up portions of the tail number <u>N612UA</u>, but incompletely (2 characters, <u>N6 plus partials</u>).

As far as I can tell, we have 4 photos and one video of these pieces. Five sources.



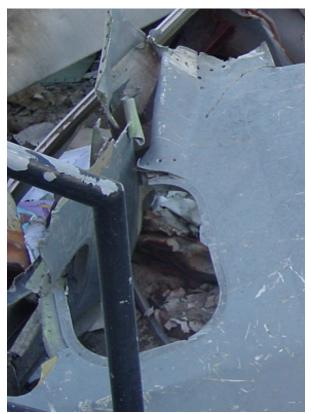
"A portion of the fuselage of United Airlines Flight 175 on the roof of WTC5." <u>Source</u>: FEMA/Gene Corley 10/25/2001 The official photo, cropped. What became of these two pieces of prime evidence? Yes, that's right, 2 pieces.

1. FEMA photo 12390 [mirror] "by Gene Corley taken on 10/25/2001" according to the FEMA website. Corley appeared in the "Investigations" section above, since he was lead investigator. FEMA published this photo without his/any name in their "Building Performance Study" FEMA 403 Ch. 2, p. 32. The only other source (no NIST FOIA file) is popularmechanics.com (terrible quality) in their "Debunking the 9/11 Myths: Special Report" published 4/7/2010, where the photographer's name is "William F. Baker/FEMA." Per the FEMA report, Baker was working under the guise of FEMA, when he really worked as a Partner at a major architecture firm – Skidmore, Owings & Merrill LLP. (FEMA Building Performance Study, cover and contents, May 2002) Yet the photo was taken by Dr. W. Gene Corley, PE, according to the FEMA website and jpg exif metadata, seen below.

Looking in NIST FOIA 09-42 release 37, we see Baker's photos were in fact taken with a Canon PowerShot S300, like the FEMA photo (see exif data below). We find no other shots on the roof of WTC 5 from Baker or Corley. The PBS-NOVA documentary "Building on Ground Zero" (2006), shows Gene using a Nikon camera at a scrapyard in 2001/2002. It appears Baker took the photo, then Gene claimed ownership for use by FEMA, changing the exif data.

In its two public appearances, the <u>FEMA 12390 photo</u> was captioned by FEMA, "**A portion** of fuselage of United Airlines Flight 175 on the roof of WTC 5." (<u>FEMA 403 Ch. 2</u>, p.

32, em. added.) In <u>Popular Mechanics</u>: "Passenger windows on **a piece** of Flight 175's fuselage." (em. added) The problem is that *what looked like* one portion/piece was really **two**. Assuming Corley was on the roof with Baker, he must have known the caption was a lie. A simple explanation for the misleading caption would be that Corley wasn't there on WTC 5.



Two fuselage pieces were set together by persons unknown. The smaller at left/top has the white lettering of a letter N, where it leans against the other piece's side end tip of the 2. Photo by Gary Steficek, cropped.

Either way, it is the official photograph of the evidence that we **haven't seen since** on that roof. This is surprising because "it" had identifying markings specific to flight 175, unlike any other piece found. Never mind the serial numbers almost certainly found on other parts, never matched to the



N612UA with outline of 2 found fuselage fragments. Black is bent out of view/estimated. Bottom right is depicted in original shape. Photo source: <u>airliners.net</u>



Still from video shot by Gary Steficek, date unknown. See the smaller fuselage piece lean on its right side back to us, turning the crumpled, reddish mass for viewing. Ripped edge on left of larger piece is clearly not attached.

planes. One would think these fragments would have gone into the 2006 Moussaoui trial exhibits among all types of photographed evidence as well as video and photos. Ex: Pentagon plane part. Shanksville plane parts (fuselage, engine). From the New York attacks we got a passport. No plane parts. (Bad chain of evidence? Or did the FBI never see the photo?) No museums have housed "it," either. Fodder for the conspiracy theorists.

**2.** The <u>unknown photographer [mirror]</u>. Not high res. Rare. Truest source I can find was uploaded 11/14/2006 to the <u>studyof911.com gallery</u>, which by the way is cached with broken links that don't find the 640x480 version of the image; I found <u>only the 400x300</u>. Original was titled "<u>planepartrf2.jpg</u>."

The different angle very clearly shows two pieces put together, resting in a similar configuration as in the FEMA photo. The handrail blocks the broken window frame edge and the tip of the larger, but we see two pieces. Who took the photo? It must have been somebody allowed on the roof, from any agency, department, etc.

Paint on the smaller piece is more clean, suggesting that the larger portion lay exposed to the toxic dust for a month (and/or smoke from the fires) and the smaller was not exposed. Some see a conspiracy as if the small piece came from somewhere else — or that both sections were carried up the stairs and planted.



Two pieces of fuselage from the second plane atop WTC 5, date/photographer unknown. <u>Source</u> cropped. Anonymous.

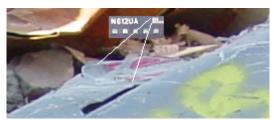
**3.** The only known <u>Gary Steficek photo</u> [mirror]. As ASCE (American Society of Civil Engineers), he worked alongside FEMA, but wasn't named as a BPAT (Building Performance Assessment Team) "<u>team member</u>" in the report. His name shows up on at least 4 folders in

Fuselage pieces on the roof of WTC 5 on 10/18/2001 Photo by Gary Steficek. Source: NIST FOIA 911datasets.org Release 32, 42A0367 – G33D1, Steficek-2001-10-18)

the 2010 NIST FOIA materials (the only source). The photo gives a clear view of the smaller piece standing through the other's window, on its right side. Again, this piece is in a different spot in the Corley photo. We'll get back to that. Plus, there is no blue tint to the image. More details emerge, like the faint "butt joint" seam running down between the 2<sup>nd</sup> and 3rd rear windows.

Steficek's photo was taken on 10/18/2001, per image metadata (and NIST FOIA file folder

title), which contradicts <u>Corley's statement</u> to the House Science Committee March 6, 2002 that his investigative team was on site from October 7 – 12. Corley must have gotten his dates wrong if "his" image was taken on 10/25 (like the other Steficek folder of images is titled). Or they re-visited to get more material for describing WTC 5 in their report.



American flag, torn. Photo by Gary Steficek, cropped. Inset from actual aircraft, starboard.

This being the crispest image we have, it captures a detail on the inside, through the window. An angled bracket, <u>circled here</u>, proves difficult to find on the stripped Boeing 767-300 <u>airframe interior</u> (which in the area of fuselage we're talking about, is the <u>same as a 767-200</u>, just longer). Follow the link and see that plane from the inside, metal beams exposed – in the same spot. See the angled bracket? Me neither. We're probably not seeing it right. I have no ideas. Seeing the torn American flag is interesting....

**4.** Looking at the <u>Steficek video</u> [mirror] (NIST FOIA 09-42, 911datasets.org rel. 28, 42A0310 – G28D15), we learn the aircraft parts were found some time before and marked "AIR CRAFT" nearby with red spray paint, like the FDNY and others were using. (A 9/24 photo shows more on the walls [2.]) It's unknown if one or both pieces were moved from another spot on the roof. Both landing beside the door and stairs strains credibility. Or somebody thought about taking them down the stairs and changed their mind. (I won't entertain the theory of this being planted [coming from some other crash], despite <u>images</u> [low res <u>Natasha Sealy</u> in particular] showing the roof shortly after the plane hit with no fuselage

debris clearly visible, only shadow. Not all of the roof is seen.) It was seen 9/24 from afar.

The fuselage sections don't get much airtime in this video. **Ten seconds** out of <u>39 minutes</u> of recording around WTC 5. A cut in the recording (<u>at 31:32</u>) skips time and comes back to a tight shot on the left end, held for one second then zooms out. Was it an honest powering off and back on? (Why would a partial edit be done? I don't know.)



Red spray paint points to the fuselage pieces apparently found by FDNY some time ago, probably when the building first cooled. <u>Video by Gary Steficek</u>. October 2001.

In that one second closeup of the small piece, we see <u>fasteners</u> on the sheet metal on the back side, in a pattern around the last window [below the "N" on the front] and more fasteners on the horizontal strip above. Those who argue for planted parts point out that there are not flat rivets on the horizontal strip, but instead more protruding fasteners, such as <u>HI-</u>



Steficek video, 2 frame composite to zoom on fasteners, not <u>smooth rivets</u>. Good view of the broken window frame on the larger piece. Notice the contorted smaller piece has part of its window bent on its back side.

LOK. A "highly experienced Boeing 767 Aircraft Structures Technician" has pointed out the rear window on all 767s should have rivets on that horizontal strip, as a matter of design. (pilotsfor911truth.org forum) Is this proof that piece is not authentic, i.e. not a 767 rear window? Is the Technician incorrect, or have we been looking at two pieces of the wrong aircraft? (or the right one, painted?) We'd know better if the FBI and NTSB had simply ID'd the planes by serial numbers. Now it seems the FBI's unwillingness to ID the planes itself has become circumstantial

evidence against the parts' – and aircrafts' – authenticity.

Finally, notice the red paint on the back side of the smaller piece, also seen in the FEMA photo. The video's color is terrible, but we see it. This happens to be the <u>original color</u> of the plane in 1983, at least the red stripe lining the windows. Where would the aluminum shell still be painted red? There happened to be a red stripe roughly 4 feet below the windows, too far. Surely the red isn't the inside surface; because paint adds weight and we can see the primer green in places. Who knows. The wreckage hasn't been seen – that I know of – since it was photographed on October 25, 2001.

**5.** A photo from the <u>2012 NTSB FOIA Appeal</u> PowerPoint document authored by George Black Oct. 25, 2001, file name "<u>Does not look like NTSB record—N612U\_9\_11.ppt</u>." After extracting the image from the PowerPoint slide, we learn the <u>original photo</u> was shot using a NIKON E900 camera, f/4.3, 1/203 sec. No flash, measuring 1280×960 pixels.



Fuselage fragment atop WTC 5, date/photographer unknown. Embedded in PowerPoint document dated 10/25/2001.

The image was named "Does not look like NTSB record-N612U..." because at right we see something lying on the ground/roof behind the larger piece of fuselage, appearing like the top of a <u>letter B or P</u>, which was mistaken for part of the plane. From other photos we know it's merely garbage in the background.

This image made me think that FEMA's official photo was staged as if to depict one piece. (Update 2018: Delete my claims that the FEMA image was Photoshopped.) The two

pieces seem to have been carefully lined up for just that reason. As the photographer crouched to the level of the handrail, the sheet metal obstacle at left blocked the jagged intersection where the two parts merged. Happenstance? Is it possible this spot in the photo didn't look good enough, so some blue digital paint was added? It should be gray, right?



Figure 2-29 A portion of the fuselage of United Airlines Flight 175 on the roof of WTC 5. Screenshot of the 2002 FEMA study, Ch. 2 page 32, cropped.

EXIF	
Image Description	New York City, October 25, 2001 A portion of the fuselage of United Airlines Flight 175 on the roof of WTC 5. FEMA Photo/Gene Corley
Make	Canon
Camera Model Name	Canon PowerShot S300
Orientation	Horizontal (normal)
X Resolution	274
Y Resolution	274
Resolution Unit	inches
Software	Adobe Photoshop CS Windows
Modify Date	2005:01:12 14:51:36
Artist	Gene Corley
Y Cb Cr Positioning	Centered
Exposure Time	1/200
F Number	2.7
Exif Version	0210
Date/Time Original	2001:10:25 17:03:56
Create Date	2001:10:25 17:03:56

Metadata for the digital FEMA image 12390.

Notice in the exif data for Corley/Baker's photo that "Adobe Photoshop CS Windows" is listed beside "Software." The last edit was made in 2005, although the photo looks the same in the 2002 Building Performance Study. Was Photoshop used to alter the image? Friend and graphic artist Jerrod Hall, whom I consider an expert in 2D, like most people thought he was seeing one piece of airplane, until I showed him the other images and explained how the shot was lined up/"staged." He agreed with my theory of Photoshop alterations. Shadows and hard lines are not where they should be. The blue areas that look painted on the smaller piece – were they painted digitally? One researcher questioned this in 2008: "The left part of the debris in the [...] pic does have some peculiar coloring, almost as if the image was manipulated, for whatever reason." ("New Picture of WTC5 Plane Part, New Questions," Humint Events Online, 9/19/2008) I'm not so sure now, after talking with skeptics.



My Photoshop work using the transparent NTSB image and the FEMA image. Was the FEMA (Baker) photo digitally altered by Corley to suggest one piece of fuselage? If so, would that explain why Corley claimed ownership (see exif)?

Why would Gene Photoshop/manipulate the image? Was it a power trip – having absolute control over an iconic piece of evidence, creating it in a way? Conspiracy theorists will latch onto this analysis, but I do not support the idea that parts [the right or wrong ones] were carried from a vehicle and planted there [as the body parts of passengers would then had to have been]. Despite the odds, I still find it more likely the parts from the rear of the exploding plane flew out of the NE <u>corner steel opening</u> and landed on the WTC 5 roof, even bearing a partial tail number nobody mentioned!

The idea may have burgeoned on the WTC 5 rooftop: "Wouldn't it be neat if we set this

up like one big piece?" Maybe Corley just wasn't there; and he later mistook the two pieces in Baker's photo for one. As I pointed out about the anonymous photo, it was a similar setup.

Either way, why did **nobody** from FEMA, NIST (not used in their report), or even Popular Mechanics **point out the most fascinating characteristic of that fuselage – a partial tail number!?** Is that because Gene didn't want to draw attention to that feature for fear of his Photoshop job being revealed? Popular Mechanics probably didn't want to have to explain how tail numbers work, or about how the identities of the planes were never verified by NTSB/ FBI using serial numbers on airplane parts. FEMA/Corley and team didn't want to go into that either.

After all of this discussion, though, if the two pieces were brought out and put on display today, Corley would remain beyond reproach. He died in 2013 with the issue having never been raised. It was only a little touch-up, he might have said. They staged the parts for a photo op, so what. Or he just didn't know.

Now everybody knows. It's two portions. Two pieces. And Baker took the photo.



## THE ENGINES

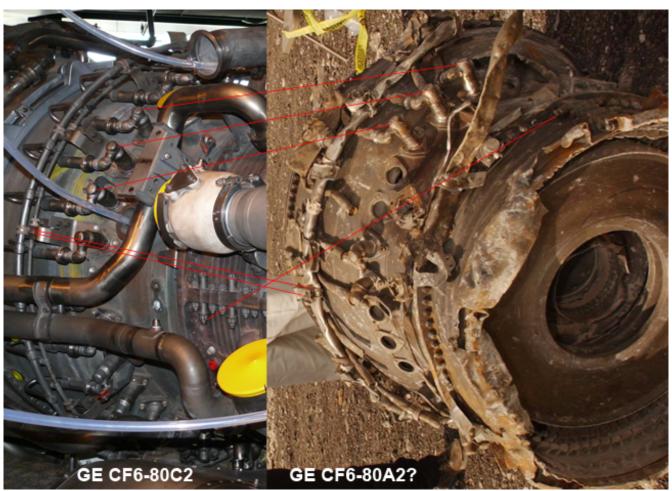
Three of the four engines from the two planes (parts of them) were found. The most famous one bounced to a stop on a sidewalk on Church Street at the corner of Murray Street (above at left). That engine core knocked a green Murray St. sign from its post, as well as a ONE WAY sign. Videos of this engine core (about ¼ of the engine) include WABC (NIST FOIA 09-42 release 14, files WABC Dub1 127-131 and release 25, folder 42A0108 – G25D18), where an FBI agent was seen taking photos (that have never been seen), Gedeon Naudet (HD – parts still smoking), Kevin Segalla, David Vogler, etc. Photographers include John G. of NFPA (engine still smoking) and George Marengo (also NIST FOIA rel. 7), among other anonymous photos (2. 3. 4. post collapse). We'll get to the controversy surrounding this engine later.

The NIST used PW4000 series engines in their aircraft impact model. (NCSTAR 1-2, p. lxvi, 82-84) **Wrong.** N334AA (Flight 11) had 2 <u>General Electric CF6-80A2</u> (<u>Also 2.</u>) and N612UA (Flight 175) had 2 <u>Pratt & Whitney JT9D-7R4D</u> engines. (<u>Also 2., 3.</u>) (PW4000 series for a Boeing 767-200 weighs 9,213 lbs; CF6-80A2 weighs 8,496 lbs and JT9D-7R4D 8,905

lbs. [http://www.jet-engine.net/civtfspec.html]) The parts seen above (enlarge photos: left – right) weigh a fraction of that and look small because each amounts to less than a fourth of the whole engine.

For those of you familiar with this subject, maybe you didn't know this: At least part of one of the N334AA/ Flight 11 engines was recovered! You've probably seen a photo of it and wondered (above/below at right). Since there was only one other (virtually identical) photo of the thing, and since technical knowledge of aeronautics is rare, only a couple people recognized the engine type (GE CF6) in the years of researching. (See bottom of page at <a href="http://physics911.net/omholt/">http://physics911.net/omholt/</a>. Also kudos to <a href="Darren at pumpitout">Darren at pumpitout</a> forum.)

Since 9/11, though, the engines seemed to have disappeared. Did they bury some plane parts, including the engines, at Fresh Kills? Esteemed truther Anthony Lawson suspected that in his video "The Legend of 9/11 – 10 Years On." (2011)



With the aid of a mechanic or other qualified person, this would confirm the engine to be the type flown on N334AA, Flight 11. Source, left: Photo by Ruth Ann. General Electric <u>CF6-80C2</u> in the American Airlines Museum in Texas. At right, Fresh Kills Landfill, <u>FEMA News photo</u>. I've added the lines and text to indicate the 9/11 engine part belonged to a CF6.

Then in 2011 the FBI rolled out that engine part and one other for the 10<sup>th</sup> anniversary. If you go to the Wikipedia page for Flight 175 and click on the <u>engine photo</u>, you'll see the one pictured above at right <u>hanging in a museum</u> (<u>Newseum's 2011 exhibit</u> "War on Terror: The FBI's New Focus") with <u>another unidentified engine piece</u> (Getty Images) also <u>seen before</u> (<u>source</u>) in the pile of plane parts at Fresh Kills. The museum Curator of Collections, Carrie

Christoffersen, said they had "two fragments of jet engine from Flight 175 on exhibit. There's a small piece that weighs 800 pounds (363 KG) and a larger piece that weighs 1,500 pounds (682 KG). They are on loan to us from the FBI."

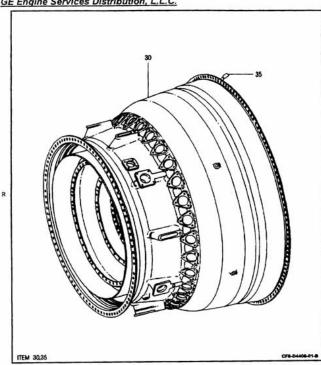
The <u>Washington Post also said</u> both pieces were from "Flight 175." (In quotes because flights don't have engines. Planes do.) Their <u>photo is high res</u>, depicting the one seen above at right. Shame on the Washington Post, though, because the caption for the photo says, "Engine parts from Flight 175, which crashed into the World Trade Center's North Tower at 8:46 a.m. on Sept. 11, 2001. (Sarah Mercier/ Newseum)" In case you didn't catch that, it should say Flight 11 for that time and tower of impact. (Jacqueline Trescott, "Newseum exhibit 'War on Terror: The FBI's New Focus' includes artifacts from 9/11," <u>washingtonpost.com</u>, 8/26/2011) [another image]

This is further proof the FBI and/or NTSB didn't ID the parts to specific airplane. Or the info got lost in the mix over the past 15 years and no records were kept. Now we'll have to talk to Newseum and get the <u>placard</u> changed for their exhibit's display. I believe the exhibit is still in place. In 2015 it reopened with a new name, "<u>Inside Today's FBI</u>: Fighting Crime in the Age of Terror." In the FBI's online article about the exhibit, the 9/11 artifacts were also described with the engines and landing gear coming from "Flight 175." (FBI, "Newseum goes 'Inside Today's FBI," <u>fbi.gov</u>, 11/13/2015) Fail.

As we'll see with the N612UA engine, our N334AA engine is a different model (80A2) within a series (CF6) than some others we use for comparison. The 80C2 (see drawing below) is a new and improved version of the 80A. It has an enlarged fan and "[a]n extra stage is added to the HP compressor, and a 5th to the LP turbine." (Wikipedia, "General Electric CF6") I'm no pro, but I'm pretty sure our engine part wasn't affected much in the upgrade. It's

CF6-80C2 ENGINE
ILLUSTRATED PARTS CATALOG

GE Engine Services Distribution, L.L.C.



a "<u>diffuser case</u>" (with lots of stuff attached and inside – detailed [in 80A type] in an <u>NTSB drawing here.</u>)

They have a Flight 11 engine and **they don't know** it. It feels good knowing



Newseum FBI Exhibit, 2011. Image flipped horizontally. The front of the engine is left. See a CF6 being built.

something about the physical evidence from the biggest crime of the century that the FBI

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CORE MODULE-MAJOR ASSEMBLIES FIGURE 1 - SHEET 2 does not know.

I wonder where in the pile it was found; if they drove it to the landfill or dropped it in a barge. The above FEMA photo is from October 16, 2001. Nearly ten years later we saw it again, in a museum, labeled wrong.

For the smaller of the two pieces on display in the Newseum, I don't know how or if the FBI identified it (location found? wild guess?), but I feel I can safely say it wasn't photographed on the street that day. Check out my photo album of the littered streets before either collapse. Did our amateur and NYPD photographers in the area miss the spot, walk by it while gazing above, or was it hidden from view?

There are two possible connections to the location in oral/ written records, if it's the same piece we're talking about. First witness: "We parked the car on the corner of Fulton and

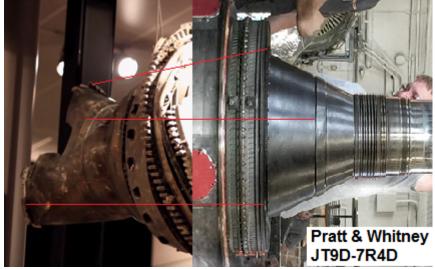


Image at left from a video introducing the Newseum 2011 FBI exhibit. At right, photo by Fred Robel, cropped and rotated to show matching features. Engine type is known by the photographer. At left, some of the shaft base torn from the compression module, holding part of the combustor and 2-stage high pressure turbine (HPT) destroyed on 9/11. See a museum's JT9D open as above.

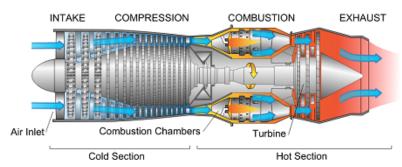
Church. [...] when I looked up I saw the impact of the second plane. [...] debris was falling [...] So we ran back to the car and laying right in back of my car was a large object which I thought was probably part of one of the aircraft turbines. It was laying about ten feet away from the car and it was still on fire, smoking and fire." (FDNY Chief of Safety Albert Turi, WTC Task Force Interview, Oct. 23, 2001) Keith Lane of FOX5 WNYW-TV was near that location, but there is no glimpse of aircraft debris or the smashed vehicle.

Although it remains a mystery where the smaller piece at the Newseum was found, it looks like a match for a known JT9D-7R4D, using one part as reference (comparison above). The FBI may be right about it originating from "Flight 175" after all. As for it possibly hitting a car, 800 pounds (Newseum Curator, Ibid.) [that's 363 KG] would annihilate any civilian vehicle. This car (Source: www.) with caved-in trunk on West St. was supposedly hit with aircraft debris, but another angle (Lance Boyle on Photobucket) shows it was something else. Anyway, that car doesn't fit these descriptions – not enough damage. These next witness accounts remind us of Chief Al Turi's car on Church St.

"At that point, Smitty was driving. That's when he started trying to snake his way up West Street. There was a lot of debris in the street and I remember yelling to the Lieutenant to keep going because stuff was still landing all around us. We just passed a compact car where the engine was running and the door was open, which looked to me like the driver had escaped, but from **the back seat to the trunk was crushed by a jet engine**." - FDNY firefighter Michael Hazel, <u>WTC Task Force Interview</u>, 12/6/2001

"There was a car that we drove by that the driver's door and the passenger door were open, and there was a **plane motor on the back half of the car.** Two inches more, and both these guys would have

been dead too. That was their ticket. It was amazing. The car was actually cut right in half with this motor, right there back of the front seat. I sat there in amazement." - FDNY firefighter Richard Saulle, WTC Task Force Interview, 12/6/2001



From Wikipedia, "Jet Engine" (Not a Pratt or GE design. See a <u>JT9D</u> with cutaway sheet metal, revealing back to front (another, 3.). The combustion area is where all 3 of our engines originate. See a high res photo of a <u>JT9D annular combustor</u> with windows into the metal layers.)

That car may not have been photographed. This leads me to believe that Chief Turi's engine was something different. Fresh Kills was where it was first seen (image dated Jan. 13, 2002).

While looking for our <u>800-pounder</u> notice it comes from the same area and could conceivably have originated *inside* the bigger engine part from Church/Murray St., not photographed since October 2001 (details below). See our

diffuser case for the JT9D drawn for the FAA with its innards. One from a -7R4D is in the photo by Fred Robel. (That's the same area on the CF6 engine of N334AA's, as well.) The question is: Did the 800-pounder come out that way in the crash, or was it part of the Church/Murray St. engine skinned to lower the weight? There are no photos of it except at Fresh Kills (and the museum). They could be from two different engines or (with some adjustments?) from the same. My current estimation is they're from two, one being found in the rubble, one on the street.

For our N334AA engine part, I provided differences between the other versions. The differences in the -7R4D and previous versions are listed in <u>Jane's All The World's Aircraft 1991-1992</u>, p. 733. See a scanned image only (circles are not mine). <u>It reads</u>: "Seven models (7R4D to 7R4H), with larger fan with wide chord blades, zero stage on LP compressor, improved combustor, [7R4]H has single crystal HP <u>turbine blades</u> ...." (<u>Source</u>: Darren at pumpitout forum)



Still from "9/11: The Filmmakers' Commemorative Edition" shot by Gedeon Naudet. <u>See clip.</u> Smoke rises from the center. Believed to be the 2-stage high pressure turbine (HPT) which would have sat "atop" the bigger piece. Are there any photos of the other side? Regardless, it's safe to say it came from a Boeing 767, etched in time as "Flight 175."

More info about the blades comes from the <u>FAA in a document</u> about Pratt & Whitney engine models, including our 7R4D: "single crystal first stage turbine blades" (Feb. 10, 2001).

The <u>Jane's</u> book gives the number of blades for each stage (1<sup>st</sup> – 116, 2<sup>nd</sup> - 138), but they're hard to count accurately on the actual broken subjects. I speak of the two joined disks with blades shorn off or knocked out. The Naudet image above shows some of these silver blade bases (not sure what material) sliding out of their notches – which should probably be "<u>fir tree</u> roots" as specified in the LP turbine (hot section) at the back of the engine (<u>Jane's</u>, op cit.). Dovetail style <u>like this blade</u> was found in the street near WTC 2. <u>See the disk</u> from a good angle, on muddy ground (source missing). <u>These photos by NYPD</u> include the piece, from <u>Above Hallowed Ground</u>, Christopher Sweet, Ed., Viking Studio, 2002, op cit.), as well as <u>David Vogler's video</u>, <u>WABC raw video</u> from the FOIA's WABC NIST Dub #1....

Although obviously not the 800-lb piece, there's engine debris by a smashed car:

"Manuel Delgado (EMS): 'An explosion goes off. [the second plane impact] I immediately tell everyone to get out of the car and hide somewhere, go underneath something. It's interesting because, as we were there, there was a police car, I guess, on Vesey, on the corner there, and some debris comes down from whatever this explosion was, at the time we really didn't know, and it just crushes it, I mean, crushes the top front of the police car, which really scared me at that point.

Q. Could you tell if it was airplane parts?

A. It looked like an airplane part afterward, yes, it did. It looked like part of an engine. It was pretty big. It was probably the size of the hood because it kind of hit it, bounced, and then rolled off."

- WTC Task Force Interview, Paramedic Manuel Delgado, 10/2/2001

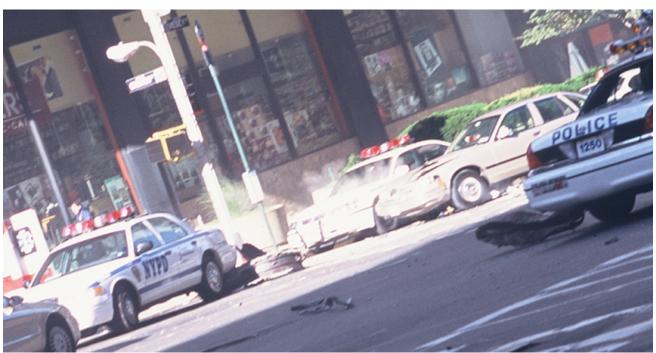


Photo by Lyle Owerko, NIST FOIA 09-42, 911datasets.org release 11 (<u>Cropped</u> to focus on the beige cop car [unknown agency; lights inside, not on top] with **smashed hood** while including the street sign "Vesey" and some of the Borders sign in WTC 5.) The ~3-foot diameter ring beside the police car – we imagine, seeing less than half – seems it could be part of an engine. But not our 800 pound engine <u>on display at Newseum</u>.

Many other parts of one or more aircraft engines were found and photographed. Mostly varying sizes of <u>rings of metal</u> (photo source NIST FOIA 911datasets.org release 17, JohnG\_NFPA5; also <u>2.</u>, <u>3.</u> by Lyle Owerko; <u>4.</u>, <u>5.</u> by Louis Briendel; and <u>6.</u> by Vicki Arbitrio [NIST FOIA 09-42 release 32]), some outer shell seams and some turbine disks with blades

shorn away. Blades such as <u>this one in the street</u> [with blood and tissue – be warned]. See photo at the beginning of this section, the ring leaning on the Pratt engine chunk, at left. <u>One thick ring</u> of unknown diameter, as mentioned earlier, was labeled "possibly part of landing gear" by the NYSM.

A rarely seen chunk of alleged N612UA turbofan jet engine landed on the roof of WTC 5. There are no location clues in the photo; we just see the ground/ roof. There are only two photographs of it (at rest, closeup, in its mangled state). The first, from Oct. 18, 2001. The other, from Oct. 25 has better lighting; but the one below has a size reference. Looking at the whole set of photos from the 18<sup>th</sup> reveals our location – **on the roof of WTC 5**, 4 minutes after the Steficek fuselage photo (4:13 a.m. fuselage and 4:17 engine fan, per metadata). This fragment of UA175's starboard engine is missing since 2001. No museum exhibitions.



Source: NIST FOIA Release #32, 42A0367 - G33D1\WTCI-95-I-GMS-multiple\ Stefficek-2001-10-18... Going by location only, this belongs to a Pratt & Whitney JT9D-7R4D turbofan jet engine. Looking at an older model JT9D in a museum, this appears to come from the rear. At right, the feet of another investigator show us how big this thing was.

The path of N612UA's starboard engine through the South Tower decided the course of the NIST investigation's <u>impact analysis</u>. Even though the wing tips hit at nearly the same time, the lateral orientation angle was assumed to be 11-13 degrees, in order <u>to line up</u> the engine with the corner of the building where it emerged. See above, Investigations: "<u>Second Plane Impact Error</u>" or the article, "<u>NIST, ARA Error Speaks Volumes</u>." The engine deflected off a <u>staircase not in the original plans</u> since it was a tenant modification. This explains the difference in direction that the landing gear parts and 2013 wing actuator flew (<u>pretty straight</u>). What remained of the engine came out of the NE corner of the 81<sup>st</sup> floor – which in fact

had an opening in the structural steel. See the <u>damage photo</u> from NCSTAR 1-3, p. 46 and <u>text from p. 45</u> saying there was a column in every other floor's corner, but not 81. See WTC 1 <u>during construction</u>, for example. <u>This construction photo</u> is amazing. (<u>source</u>) Another <u>here</u>.

Exploding from that corner, the smoke trail revealed spinning motion, especially in the nearby eastern <u>Scott Myers video</u>. If the <u>high pressure turbine</u> was still spinning, it would have been like the propeller on a boat (in back), if the boat were a flaming can of layered metals. This spinning may have continued until after hitting the ground, giving it <u>top-like</u> behavior, perhaps explaining how it ended up standing up and not on its side – as well as its ability to bounce and land off the street on a sidewalk below an intact scaffolding. (Nobody moved this ¾ ton monster into position without heavy equipment – weight going by the similar N334AA engine at Newseum).

Before the engine hit the street at the corner of Church and Murray, it collided with the building at 50 Murray St., acting like a wrecking ball on a top corner room. (Photos by John G./NFPA were taken only minutes after, per image metadata, so no yellow Police tape yet. [911datasets.org NIST FOIA Release 17]). Looking back toward the WTC, building debris fell at right. As the NIST said, the engine came to rest on the opposite corner, "near the northeast corner of the intersection." (NCSTAR 1-5A, p. 120, seen at 911myths.com) See a small map.

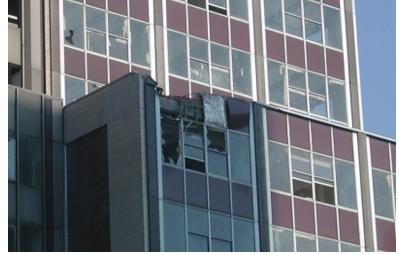
See collected images of the area in this video collection (shows Gedeon Naudet's wide view of the yellow taped-off area in slow motion etc.). More video of the aftermath came from raw WABC Dub 1 (op cit.), and Kevin Segalla, for example [mirror – source: NIST FOIA 09-42 911datasets.org release 14].

One <u>property advertisement</u> mentioned this (5<sup>th</sup> paragraph) as an item of interest. See the area today in <u>Google Maps street view</u>.

Falling down from there, the engine chunk apparently knocked off the green Murray St. sign and a ONE WAY <u>street sign</u>. (opinions at video compilation link not endorsed, although it's obvious the signs were staged for photo ops). Also one of



WTC 2 hit, the largest part of engine careens down at about <u>197 MPH</u>. (Photo source missing) The same figures plot a 38°downward angle at impact. The building hit is in view, making this photo rare.



A brick wall (corner) and roof edge at 50 Murray St. are destroyed by the engine part. This <u>building material</u> gets photographed <u>in the street</u> by numerous people. Source: Photo by George Bell/ Moody's EPSN0064

the yellow WALK/ DON'T WALK sign holders <u>above the engine has a broken post</u> (John G., op cit.). This may be unrelated, but it's possible the engine bumped that pole or the sign itself. More damage is noticeable under the scaffolding, where the awning was dented and part of its grated light fixture covers knocked down (same photo, under the African American man's feet). <u>Another angle</u> shows the awning clearly damaged. (source missing) Several angles of the engine are <u>compiled in this video</u>.



Source: John G./NFPA (911datasets.org NIST FOIA Release 17), cropped

In the <u>same John G. photo</u> we see the silver wire-like tubing from the <u>diffuser case</u> beside the curb. A man wearing an FBI jacket photographs it with a measuring square <u>here in</u> the WABC video.

Here's <u>another frame from Naudet</u>, closeup where you can see the diffuser case torn off midway, revealing its insides. Yet not so pretty as seeing it in pristine shape, on <u>display at a museum</u>.

Also there with a camera was <u>George Marengo</u> (named at <u>nyartlab.com</u> [cached] and in the Int'l Center for 9/11 Studies <u>NIST FOIA 09-42</u>, 911datasets.org releases 7 & 37). By the time he photographed the spot, the two pieces had stopped smoking. In addition to <u>John G.</u>, an unknown photographer shot it while it <u>still smoked</u>. (image source missing) Also, <u>Naudet</u>, the high pressure turbine (HPT) disk.

Despite all the evidence of a Boeing 767 jet airplane exploding through WTC 2, some conspiracy theorists think there was trickery involved with this engine. Either it was planted because no plane hit (!) or it was the wrong engine type; which [they say] is why there were no plane identifications by parts' serial numbers – and why the engine in question has disappeared since 9/11.

Without factual, visual comparisons to real-world aircraft engines, curious researchers have relied on erroneous identifications of the 9/11 engine part. Rense web detritus from an unnamed, mistaken mechanic flowed onto 911blogger with talk of CFM56 engines for a 737. (John Carlson, "WTC Jet Engine Confirmed NOT from Boeing 767," rense.com) See also americanfreepress.net here for 737 talk. Let's not sink too far in the murk of misinformation.



<u>Source</u>: Photo by Fred Robel, cropped to focus on the diffuser case of a JT9D-7R4D. See its <u>details compared to the 9/11 engines</u>.

Since planting it is laughable, what about the theory See its details compared to the 9/1 that a different plane hit the South Tower? It's too popular a theory among truthers to be disregarded. What evidence is supposedly there besides witnesses who thought they saw something besides a United 767?

Related to the engine, one theory caught the attention of internet-goers ever since 2009 when Darren aka <u>Weezula on pumpitout forum</u> matched a part on the engine to a version of JT9D **not including** 7R4D, meaning a <u>747</u> (with 2 engines, or a 767 with 747 engines) hit the South Tower! After finding the alleged smoking gun discrepancy below, Darren lost interest in the subject and left it open.

Then in 2015 a reboot of the theory turned up on the Pilots for 9/11 Truth forum, in post #1 of one "JosephR." He explains it succinctly, convincingly:

"The engine found on Murray Street not [sic] a CFM-6 engine as some of the disinformation video's [sic] have been showing on YouTube. The engine is from an older 747 Pratt & Whitney JT9D-7A or earlier engine. The evidence is in the Tobi-Tube ducts found at the end of the core. These were discontinued in 1983 when an upgraded version became available known as the JT9D-7R4D. The "R" stands for "Radial" cooling duct which enabled higher HPT (High Pressure Turbine) speeds by reducing airflow drag. It also enhanced engine performance and efficiency. The engine on Murray Street cannot be a JT9D-7R4D because the tobi-tube ducts were not used; only the Radial ducts. Tobi-Tube ducts were only available on -7A/J/F engines and not the -7R4D. The Tobi-Tube duct information can be found on one of its manufacturers known as Chrome Alloy. I created an account there last year and searched for the Radial Duct PN/SN for applicability to the 7R4D. The results showed that the Tobi-Tube duct does not fit the -7R4D, and is ONLY available on the older 747 engines (-7A/J/F)." - Source, pilotsfor911truth.org forum, "Can this be the engine from United 175?"

Joe ended his post by saying, "A pod appears to be visible on the lower right wing root, thus possibly proving that aircraft to be a drone." Ever since the "911: In Plane Site" (2004) documentary [see clip] supposedly on the side of 9/11 "truth," this theory has been pervasive. The pod was supposedly the guidance mechanism for proven technology used to remotely pilot the planes. The Popular Mechanics "9/11 Myths" article focused on the pod for a bit. Joe mentioning that and Operation Northwoods in that one forum post (not to mention "the CIA in conjunction with Mossad") made me suspicious of his objectivity in his quest to ID the engine found on Murray St. Is it possible he just read Darren's post on pumpitout and repackaged it?

No mention of Darren/ Weezula or pumpitout was made, as if Joe discovered this all by himself. I've even wondered if this was a big joke, like a honeypot dangled by a hater of the Pilots for 9/11 Truth club (who took the bait, as evidenced by their <u>Feb. 2016 video</u>).

Whatever. He's wrong. They're both wrong. A pumpitout forum member named Broken Sticks said, "Darren had an engine mechanic help him and concluded the engine is not suspicious. That is why he no longer looks into it with the same vigour." ("Church and Murray Engine Identification Part 3," <a href="mailto:pumpitout forum">pumpitout forum</a>, 1/26/2013) I wish Darren had shared some of his mechanic's words with the forum. Instead, his new 9/11 myth clung to life.



**HPT Stage 1 Cooling Duct (TOBI, Configuration 2)** 

Typical Part Number: 801123

Manual Ref.: 785058, ATA 72-41-30

The mis-read/ misleading product information for Chromalloy's parts. Inset photo by George Marengo, showing the ring of duct tubes. This seemed to prove the engine wasn't a 7R4D.

This author has also consulted an aircraft engine mechanic who confirmed, "yes there is a tobi duct assembly with tubes in the -7r4d." (Fred Robel, plus.google.com, 7/13/2016) Before that I contacted Pratt & Whitney with an email asking, "I have a question about the P&W JT9D-7A vs. JT9D-7R4D. Does or can the latter employ Tobi tubes?" (email to the Global Operations Center, 6/24/2016) The reply I got the same day said quite simply, "Both engine models listed employ TOBI tubes."

UPDATE 2017: Fred Robel has taken a couple photos of Pratt & Whitney JT9D-7R4D engines with TOBI ducts installed. See one below and the other here (source, Google+).



Fred Robel > Aircraft & Aviation Maintenance

Apr 29, 2017

The TOBI duct, which provides cooling air to the High Pressure Turbine disk, pokes out amidst a sea of clear plastic wrap, as it encircles the engine center shaft area.

We keep the plastic wrap over the outer part of the engine, to keep from dropping things down into the combustion can, through the NGV assemblies, which ring the outside of the area.

Pratt JT9D-7R4D aircraft engine buildup.

#avgeek #aviation #aircraft

https://plus.google.com/+FredRobel/posts/HmQ8WfDkQVj



Source - Photo by Fred Robel

Another nail in the coffin for what I call the "wrong engine theory" comes from the International Skeptics Forum. User waypastvne found a document [dead link] showing directions for replacing or modifying the TOBI duct, part number 769316 (see Chromalloy [standard] part number above), specifically on a JT9D-7R4D (and -7R4D1, -7R4E, and -7R4E1). The bulletin was issued since some engines with that "currently required turbine cooling air duct (PN 769316) have failed the turbine cooling air ratio (TCAR) check at the final engine acceptance test...." (waypastvne, "Flight paths and other questions," International Skeptics Forum, 2/17/2016)

People who still support the wrong engine theory assert there is no proof that in 2001 the TOBI ducts were used on -7R4D engines. To that I say LOOK AT THE ENGINE ON CHURCH/MURRAY ST. It's the same exact model number photographed by Fred Robel.

P.S. If any knowledgeable aeronautics professionals can help improve the language or correct any errors, please contact me at matt(at)911conspiracy.tv. Thanks in advance.
P.P.S. Does anybody know what happened to this engine part after it was last seen October, 2001? Or why it wasn't used to track the parts back to the specific aircraft used on 9/11?

## **Specific Items Recovered**

## AT THE SITE

As historians watched the "cleanup," instead of debris they saw artifacts and potentially priceless treasures. They knew a proper memorial would require that a variety of objects be kept. After the Port Authority convened a small committee, this responsibility fell largely on the architectural firm Voorsanger and Associates. Marilyn Taylor, chairman of Skidmore Owings & Merrill, and Saul Wenegrat the WTC art consultant were also included. (Dinitia Smith, "Competing Plans Hope to Shape a Trade Center Memorial," New York Times, Oct. 25, 2001, p. 3 of 5.) See Wenegrat in "Relics from the Rubble" at 40:20. Bart Voorsanger tasked his young coworker Mark Wagner with the job of identifying and collecting pieces that would either preserve part of the World Trade Center or tell the story of its destruction.

Although the PBS "America Rebuilds" website says that job took five months, in an online interview at the 9/11 Memorial website, Wagner said he was there from late September through May, 2002. The memorial website explains, "Mark Wagner is an associate partner at the architecture firm Davis Brody Bond Aedas, the design architects for the 9/11 Memorial Museum. In the aftermath of 9/11, Wagner served as Project Architect for the World Trade Center Archive."

Wagner, like many sources cataloged in my "9/11 Debris" video (see <u>Appendix 1</u>), was surprised at how difficult it was to identify anything at the site.

"'People asked me if I saw a lot of furniture in the debris,' said Wagner. 'But just about everything from the Towers was pulverized. It was surprising to find anything recognizable."

- http://www.pbs.org/americarebuilds/artifacts/artifacts\_08.html

For this reason items recovered for the memorial included mostly pieces of steel. (**See full inventory of items at** http://nistreview.org/WTC-STORAGE-AT-JFK.pdf [mirror].) I should say

"memorials" plural, because the beams and pieces of beams have been sent across the world, to 50 states and 5 countries (Paula Rogo, "Twin Towers Steel Sent for Memorials Across America," Reuters, Jun. 23, 2011), including Afghanistan, where pieces of WTC steel have been buried in numerous locations by the Green Berets (9/11 Memorial & Museum email newsletter, Aug. 8, 2011). Domestic memorials have included Beverly Hills, California. Pittsburgh, Pennsylvania, Flanders, New York (also Quogue, Rocky Point, and Sound Beach, for examples), Cherry Hill, New Jersey, Purcellville, Virginia, Mesquite, Texas (and at least 2 others in Texas)....

As seen in the History documentary "Relics from the Rubble," [mirror] one 8-ton horseshoe shaped piece powerfully displayed the intensity of the forces at work during the collapse. (A rare image of this beam is on the next page.) The most difficult force to understand was [again] the heat.

"'We saw a lot of pieces like this,' said Wagner. 'Typically, when steel bends, it buckles and tears. The smooth bend on this piece shows the steel became malleable – a pretty good indication of how hot it was.'" (http://www.pbs.org/americarebuilds/artifacts/artifacts\_09.html) An ironworker told Wagner, "I found it hard to believe that it bent because the size of it and how there's no cracks in the iron. It's bent without almost a single crack in it. It takes thousands [of] degrees to bend steel like this." Then Wagner said, "Typically you'd have buckling and tearing on the tension side, but there's no buckling at all." ("Relics from the Rubble")

It's interesting to see Wagner change his story (from heat to no heat) in the 9/11 Memorial website interview 9 years later. A touchy subject I guess. Of course, this was after a **leading** statement from host Clifford Chanin, Senior Program Advisor at the Memorial Museum.

"WAGNER: 'The steelworker said there's no way that that bent.'
CHANIN: 'And it was pressure it was not heat. These objects are not damaged by heat.'
WAGNER: 'This was just the speed of the collapse. And it was remarkable. That piece in particular was remarkable, because it happened so quickly. You didn't have the tearing and buckling you would normally have if you start to bend a piece - of compression and tension. This piece just bent cleanly.'"
- End of interview part two, 9/11 Memorial website (view with commentary)

About 1,350 pieces of steel, many weighing over 30 tons, were preserved in Hangar 17 of Kennedy International Airport (Rolando Pujol, "The Relics of the World Trade Center," amny.com, Sept. 4, 2008.). The famous "Last Column" now at the Memorial Museum was weighed at 62 tons ("WTC Relics – The Last Column," amny.com video) – see also WTC Relics: The Steel, by amny.com [Note that NBC News said 58 tons.]). The NY Times said "There are 1,800 to 2,000 pieces, half of them very large, which are available for carting away, at the recipient's expense. This does not include some 200 pieces,



Source: NIST FOIA, 911datasets.org release 9, Banovic

among them the most familiar and iconic, that have been claimed by the National Sept. 11

Memorial and Museum." (Michael Wilson, "Sept. 11 Steel Forms Heart of Far-Flung Memorials," Sept. 6, 2009). The article has told us about the pieces: "...some weighing tons, others little more than twisted sheets of metal the size of a street sign."

From this collection came many of the 236 pieces chosen for inclusion in the NIST study. Seen above with its label "B-1022" is an "unidentified wide flange" beam, as listed on p. 68 of NCSTAR 1-3B, "Steel Inventory and Identification."

"Many of the beams were twisted and distorted as though made of rubber or wax. Some beams were over 6 [inches] thick and bent like pretzels. Structural engineers, who are experts in steel structures that have suffered earthquakes and explosions claimed to have seen nothing like this before and could not imagine the kind of **pressure and heat** required to do this kind of damage."

- <u>Wendy Neu of Hugo Neu Schnitzer East</u> (Hugo Neu Corporation) to the Empire State Chapter of ISRI (Institute of Scrap Recycling Industries) on Nov. 28, 2001. (emphasis added)

Unfortunately, due to the level of corrosion on the above piece and many others, the stenciled ID numbers telling exactly where the beam went in the buildings – are gone. The numbering system was described in detail by author Angus Gillespie and quoted by FEMA.

"For example, a given piece might be marked, 'PONYA WTC 213.00 236B 4-9 558 35 TONS.' Translated, this meant the column was destined for the Port of New York Authority's World Trade Center as part of contract number 213.00. Its actual number was 236B, and it was to be used between floors four and nine. The derrick division number was 558, which determined which crane would lift it onto the building and the order in which it was to be erected."

- Angus Gillespie, <u>Twin Towers: The Life of New York City's World Trade Center</u>, Rutgers University Press, New Brunswick, NJ, 1999, p. 89 and <u>FEMA 403 Appendix D</u>, "WTC Steel Data Collection," p. 4. (<u>example</u> at G.Z. – or see <u>NCSTAR 1-3B</u>)

Besides the steel collection that humbled the million-dollar FEMA WTC investigation, those working for a memorial saved tons of WTC essentials. In the FEMA photo below, and in the <u>amny.com video</u>, you can see the WTC 1 TV antenna in pieces. Elevator motors were lined up. Aluminum from the towers' facades was collected in piles. See <u>Hangar 17 again</u>...

Perhaps the most identifiable item saved for a memorial was the centerpiece of the plaza, the <u>Koenig Sphere</u>. See the process of the sculpture's relocation to Battery Park in "America Rebuilds." [mirror] This was the temporary New York 9/11 Memorial.





Source: FEMA News Photo, 9/13/2001

The 20-ton, symbolic punctured gold ball helped mark "ground level" inside the varying elevations of the pit/pile. As seen in this <u>map of the site</u>, "The Sphere" stood just outside the edge of the bathtub's east wall. "It had been knocked off its base, but was still in its original location," said Mark Wagner ("America Rebuilds" <u>website</u>.) One story below was 22 feet of shopping mall space. ("Merritt & Harris Property Condition Assessment... Retail Mall and Plaza," 2000, p. 81.) Looking at a <u>map of the WTC Mall</u>/Concourse Level, one could see that below "The Sphere" was a hallway right in front of the GAP apparel store. The Plaza right there had collapsed <u>according to engineers</u> (see a <u>similar map</u>). It's hard to tell when looking... especially when viewing the scene from above with LIDAR. (See <u>Available Images</u>.)

See <u>"The Sphere" on 9/16</u> (FEMA News photo) standing tall among its apocalyptic surroundings. (<u>Source</u>.) Another <u>image here</u>. See also FEMA News photo <u>5313</u> (cropped above) taken 9/13, where in the foreground the granite blocks pave the top of a reinforced concrete bridge of caved floor that was the Plaza. (Merritt & Harris, Ibid., p. 87.) "The Sphere" is covered in <u>"Relics from the Rubble" at 40:49</u>.

While not very specific of an item, saved from burial or recycling was a <u>mass of rebarand wire</u> with a shredded kaleidoscope of debris, trapped in time. The sole of a shoe, torn fabric.... ("Relics from the Rubble") The NIST visited JFK and photographed this, also. (1., 2.) Small, identifiable objects mostly surfaced at the landfill debris sorting facility.

### AT FRESH KILLS

Mark Schaming, Director of Exhibitions at the New York State Museum, narrated the "Fresh Kills" portion of the E. Sauret/Turn of the Century Pictures film "Collateral Damages," in which we get a detailed list of recovered personal property and other items of interest. Another valuable source is "RECOVERY" by the New York State Museum.

Schaming described the findings at the landfill site as such:



"Somewhere in that finely sifted heap of debris are the remains of my missing brothers." - Battalion 27 Chief Mike Puzziferri in "9/11: The Firefighters' Story" (Berriff 2002)

"We saw nothing we could recognize in the field. We expected to see chairs and file cabinets and what was left of offices. Everything was reduced to the finest state. It basically looked like mountains of dirt.

There were hills of gray dirt, vast expanses of wire, twisted rebar, fields of steel, and fields of vehicles."

- "Fresh Kills" chapter of "Collateral Damages," Sauret, 2003.

There were more than 4,000 photographs among the <u>54,000 pieces</u> of personal property, all of which were carefully cataloged. <u>Time.com said</u> 65,000 personal items were recovered from Ground Zero, including stuff found at Fresh Kills. The Time.com article goes on to tally jewelry found: 144 rings, 437 watches, 77 necklaces, 119 earrings and 80 bracelets. Also listed are 4 autographed baseballs and 3 Auguste Rodin sculptures (one of which is seen in the "Fresh Kills" slideshow, in pieces). There were many credit cards and



Driver's license and credit card from AA11 passenger Judy Larocque, <u>Source</u>: Smithsonian Institution. The full list of passengers' remains and belongings is in my article, "<u>9/11 Passengers' DNA (WTC)</u>" [see video]

plastic ID cards (described as one of the most resilient personal objects found – ex: Waleed Iskandar, AA11 passenger and Lisa Frost, UA175 passenger), about \$75,000 in cash and coin ["most resilient" comment from "Relics from the Rubble" at 27:00] – many coins melted, 200 keys (some or perhaps all just to the WTC, it is unclear in "Collateral Damages"), 25 to 30 numbered metal elevator placards.... Many burned and melted guns were recovered from the Secret Service "ammunition bunker" in WTC 6 (described as exploding afterward by WTC 1 collapse survivor firefighter Jay Jonas in Report from Ground Zero, op cit., p. 102.) Hear some explosions yourself, about 45 minutes after the WTC 1 collapse. (Lucia Davis)

Some of the guns and ammo was photographed in a <u>display area here</u>. (Source: <u>The Sonic Memorial</u>) Follow that last link for a rare collection of stories and pictures from Fresh Kills.



Source: Steve Spak/YouTube

There were 1,358 vehicles in total processed at Fresh Kills civilian and law enforcement and FDNY, and more. Lost vehicles belonging to the FDNY included "twenty-seven fire engines..., thirty ladder trucks, five rescue trucks, seventeen battalion chief SUVs, one division suburban, and twentytwo sedans." (Dennis Smith, Report from Ground Zero, op cit., p. 195.) Also 144 police vehicles. (history.com "Archiving the WTC") Some video of the vehicle graveyard comes from NIST FOIA release 10, WTCI 33 NYC Pt1of4, and from "9/11: The Firefighter's Story" by Paul Berriff, clip here (mirror). One of the ladder trucks - Ladder 3 - was chosen for inclusion

in the 9/11 Memorial Museum, after being saved from recycling by Mark Wagner. (That violent

recycling was a focal point in the documentary "Collateral Damages.") The destroyed apparatus and others were taken to JFK Airport Hangar 17 for storage. See the vehicles there in panoramic photos under the tab "INSIDE THE VEHICLE TENT" at the <u>New York Times</u> website. Or see the Ladder 3 rig within hours of its demise on 9/11 in video by Steve Spak (frame seen below). From there it went to Fresh Kills. <u>In this video it waits at JFK Hangar 17</u> to enter the 9/11 Memorial Museum.

Some FEMA photos from Fresh Kills are numbered <u>5462</u> (vehicles), <u>5463</u> (dirt and twisted debris), <u>5464</u> (wide shot with equipment), and <u>5473</u> (aircraft engine).

The "vast expanses of wire" Schaming mentioned may also have included the concrete reinforcement, as seen pre-construction in a <u>NIST FOIA image</u> from Laclede Steel Company. (Source: 911datasets.org release 29) That was laid on every floor before pouring the 4-inch layer of lightweight concrete (<u>NIST NCSTAR 1</u>, p. 10.) Speaking of concrete...

# **NOT RECOVERED**

"And I remember remarking to a guy who was with me that there's nothing here. This is a 110-story office building. You couldn't find a file cabinet. You'd think there would be rubble. You couldn't find a piece of wood, a piece of carpet, a computer. There was nothing. It was just dust and big, big pieces of steel. That was it. There wasn't even a lot of concrete. Everything was pulverized.

"At that point, I just felt completely disgusted. I said this is impossible."

- Firefighter Steve Modica, Special Operations Command, <u>WTC In Their Own Words</u>, Harvey Eisner, Ed., Cygnus Business Media, 2011, p. 79.

My collected professional observations highlighting the astonishing degree of pulverization have been explained away in the media with statements like "the building is an egg-crate construction that is about 95 percent air, explaining why the rubble after the collapse was only a few stories high." (Thomas W. Eagar and Christopher Musso, "Why Did the World Trade Center Collapse? Science, Engineering, and Speculation," JOM, 53 (12) (2001), pp. 8-11.) William Langewiesche in American Ground: Unbuilding the World Trade Center, wrote in the early pages:

"Passersby peering at the ruins from afar, from beyond the perimeter fences along Broadway or Chambers, sometimes expressed amazement that two 110-story buildings could collapse into a mass that was relatively so small. But there was no mystery to the dimensions. Because the Twin Towers had been as much as 90 percent air and 10 percent structure, they had contained the equivalent of approximately eleven solid stories of steel and concrete – and beneath these uneven mounds, which stood five stories high and spilled into the streets, their remnants filled the foundation hole to bedrock, six levels down.

Indeed, from the workers' close-in view, the ruins accounted for the former buildings all too precisely. It became apparent that the initial release of powdered concrete into the air, however large it had been, had amounted to an insignificant proportion of the total weight, and that almost every pound of the original structure remained to be extracted, inspected, and hauled away. So the ruins were not small at all. On the scale of people at the site they were in fact gargantuan – not mounds but mountains that reduced the expeditions venturing out across them to ant-sized columns traversing steel slopes. More than 1.5 million tons of heavy steel and debris lay densely compacted there, tied together like steel wool and complicated by the existence of human remains." - Langewiesche, pp. 11-12. [emphasis added]

For a good intermission here, please watch "<u>World Trade Center a 3D Visualization</u>," by YouTube user Natetruth, to help understand the two towers' magnitude. What of the cubicles, desks, chairs, computers, mainframe computers, phones, staplers, copy machines, printers,

water coolers, refrigerators, vending machines, office wall gypsum board, miles of it, especially in the elevator shafts... light fixtures, wooden furniture and doors.... In response to Langewiesche's quote "remnants **filled** the foundation hole to bedrock, six levels down," look at the images/maps above under "Miracle." The bathtub in reality was only halfway "full."

While it's been argued that the concrete pulverization was not impossible for gravity alone to accomplish (F.R. Greening, Ph.D., op cit.), there is no dispute that there was 425,000 cubic yards of concrete used in building the two towers. (ABC News, Sept. 13, 7:36 p.m. - see Appendix 1) That would have been a solid cube 225 feet high, or 18 ¾ WTC stories. According to the construction era Port Authority PR department, the concrete used in both towers could have paved a five-foot-wide sidewalk from there to the Washington Monument (in D.C.), or 200 miles. (Karl Koch III, Men of Steel: The Story of the Family that Built the World Trade Center, op cit., p. 266.) Of course that includes basements and parking garages, about half of which remained intact after the "collapses." (See above, "Miracle.")

Now look for part of that mass in some of the <u>images</u> provided in the first pages above.

"I've seen collapses and d demolitioned buildings. But nothing like
this, this was - unbeliev... like I said,
there wasn't a door, there wasn't
anything to be found. It was all disintegrated - all rubble. Concrete
was small, little pieces, not even
slabs. No desks, no furniture, no
computers, no phones, no anything. So
I imagine — I imagine the people were
the same as the building. Nothing left."
[emphasis added]

- Tom Spinard, FDNY Engine 7 in "9/11: The Filmmakers' Commemorative Edition," Naudet/Hanlon, 2002.

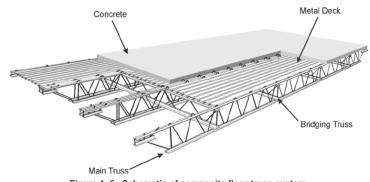


Figure 1-6. Schematic of composite floor truss system.

Source: NIST NCSTAR 1, p. 10.

"FDNY Tech Services wound up setting up a spot on the corner of West with Partner saws and blades for the Partner saw, metal cutting and concrete cutting. There was no real concrete breaking or breaching that was involved. All the concrete was just pulverized into dust."

- Firefighter Nick Giordano, Rescue 3, Special Operations Command (SOC) in Eisner, op cit., p. 198.

The concrete in most floors of the towers had been poured over about 5,800

prefabricated floor sections (Karl Koch III, op cit., p. 318) that joined the core structure to the exterior walls. Each one had six supports of triangular frameworks called trusses or bar joists, which used 1.09-inch diameter steel bar/rod and measured 29 inches deep (FEMA, Appendix B, p. 2.) After installation side by side, the double trusses were spaced evenly across the floor at 6 feet 8 inches. (FEMA, Ibid.) See truss fabrication at Laclede Steel (stills here). (Floor installation before concrete application, source: NIST FOIA 09-42 911datasets.org release 29) Notice the



truss rods extended up deeply into the concrete at regular intervals for added strength. On the underside, bridging trusses provided more stability.

These floor sections were either 60 or 35 feet long and mostly 20 feet wide (NCSTAR 1, p. 10.), all with 1-1/2-inch deep corrugated, 22-gauge sheet steel (0.03 inches/0.76 mm thick – designed to hold the 4 inches of concrete) (FEMA/NIST, Ibid.) These crucial structural elements also contained heating, ventilation, and air-conditioning ducts as well as telephone and power line ducts built in. Ceiling tile and lighting fixtures would go beneath after installation... and after spray-on fireproofing application. That meant 10,000 lighting fixtures in both towers, according to Mr. Koch, p. 322.

Five days after 9/11 when Koch gained access to the site, he looked for some sign of these **5,800 floor panels** and was shocked to report that he "couldn't identify a single one." (lbid., p. 367.) "One day a few months after the attack," he drove out to Fresh Kills to meet up with a long-time friend, Tom Petrizzo, a "trucker who had been hired by the city to haul away all the scrap metal." The amazing part about this was that **that** man had helped *deliver the floor panels to the site in 1969* when the tugboat strike had shut down the barge operation [and required a police escort for the convoys of 10 40-foot flatbed trucks that had to drive late at night since they were so wide. {lbid., p. 327-8}]. (lbid., p. 374.)

Well, when Koch "asked him if he'd seen any floor sections," Tom replied,

"No, that's what I don't understand. [...] I didn't see one goddamn floor deck come here with a bar joist in it. They must have disintegrated. Because they did not get here. And I handled this from day fu\*kin' one."

"Did they send you any decking that was loose, no joists?" [Koch] asked.

"None," Tom said.

"None? Well, that's impossible. There were six thousand of them."

"There's stuff crumpled up, but go identify it as a floor deck if you can. Impossible. A lot of guys come and ask me, they know I was involved in bringing 'em over, but Karl, not one came where I could say, 'Oh, here's one.' I



Source: NIST NCSTAR 1-3, p. 93.

could not show anybody a floor deck and say, 'This is what I hauled over.'"

I [Karl] couldn't believe it. Not one goddamn floor panel." - Koch, Ibid., p. 375. [\* added]

The new NIST image gallery contains several <u>images from scrapyards</u> (<u>sample 1., 2., 3., 4.</u>)... with a reference to NCSTAR 1-3B, "Steel Inventory and Identification." That document has 2 images of truss material (<u>example</u>) not unlike that seen in the image from NCSTAR 1-3 here. Trusses apparently retained none of their triangular framework – no straight lines – as if in every instance throughout the building, the steel had been heated significantly. Friction or incendiaries?

<u>FEMA images</u> at Ground Zero – there are dozens – never produced triangular rod shapes, and rarely turned up a corrugated steel pan. See <u>4211</u> (<u>source</u> dead), which focuses on the <u>famous cross</u> (now part of the <u>Memorial & Museum</u>) where it was found inside WTC 6, draped with torn, once molten aluminum sheathing from the north tower's exterior. See <u>3885</u> for another glimpse of shredded floor pan. Granted, the metal was thin.

Before moving on, let's take a moment to imagine stacking up these fully assembled and installed floors like square chips 275 feet high (23 stories). There are two of those. Now take inventory of the additional 79,000 tons of steel for each tower (not counting rebar or

grillages [NCSTAR 1-3, p. 16]), also stacked neatly by type. <u>Decide for yourself</u> if any beams show evidence of explosives, keeping in mind no proof can be found. There's no reason to think large numbers of columns were "turned to dust." As seen below in "Molten Steel," WTC dust investigator Mark Basile made an interesting point that the majority of his dust sample's **iron spheres were not from A36 structural steel**. (See his <u>video at 35:30</u>.)



Source: New York City Police Museum exhibit "9.11 Remembered" [Enlarge image.]

"I went to the NYC Police Museum today to verify that the article and accompanying text were genuine. They are, indeed. Furthermore, there were a few shards of glass, with the following text, which I copied down: 'Glass was a rare find at Ground Zero, where these shards were recovered. The collapse and fires pulverized and melted most of the glass from the Twin Towers 43,600 windows." - Metamars, Jan. 8, 2009 at the 9/11 Forum

Another part of the building many people noticed not literally everywhere as it should have been, was the window glass. Of course it shattered, but listen to this:

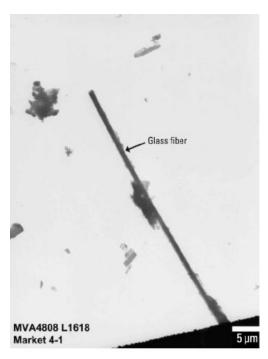
"You didn't find a shard of glass – anything that looked like it would be used by a person, you just didn't see it. It was just concrete, steel, that was it – and dust." (FDNY Engine 285 firefighter in "Collateral Damages," op cit.) "I never saw a file cabinet, never saw a desk, a chair, never saw a telephone, never saw any type of office furniture. There is no glass. It just disappeared and has become part of this fluffy white or gray dust." (Assistant Chief of Department, FDNY, Harry Meyers in Dennis Smith, Report from Ground Zero, op cit., p.163 [emphasis added].) "Certainly, every firefighter who has been at the site knows that there is not a piece of glass or marble to be seen anywhere, not a desk, a sink, or a doorknob. (Dennis Smith, p. 341. From his entry on November 2 [emphasis added].)

There were 600,000 square feet of glass in the two towers, according to Robert

Krulwich, <u>ABC News</u> (aired 9/13 at 7:35 p.m.) Yet FDNY Rescue 2 Firefighter Paul Somin chose to include in his interview, "Everything was pulverized. There wasn't any glass." (Eisner, op cit., p. 244.) On the contrary, there was <u>one full window pane</u>, now in the Memorial Museum. The Ground Zero Museum has a smaller piece of "<u>rare WTC glass</u>" you can hold.

More about the glass: "Powerful gusts can shatter windows, so for the sake of safety tempered glass eight times stronger than needed was specified. Planners designed the towers to withstand prolonged winds of 150 miles per hour." (Angus Gillespie, op cit., p. 81.) "The twenty-two-inch spaces between the columns are for the windows, which are recessed ten inches in order to shade them from all but direct sunlight. The architect specified a bronze-tinted, heat-reflective glass for the 43,600 windows." (Ibid., p. 108.) The glass itself was eighteen and a half inches wide. The 107<sup>th</sup> floor of the north tower had 30-inch wide windows, for the Windows on the World restaurant. Likewise, "extra-wide windows" were needed for the interior observation deck of the South Tower. (Ibid., p. 216.)

The windows spanned from just above the floor to the ceiling. The foot-high air vents ran the length of the floor. (See them in <a href="mailto:this video">this video</a> [mirror], source: NIST FOIA, 911datasets.org release 30, 42A0353 – G30D7.) Gillespie estimates the surface area of the towers to be about 30% glass (p. 165), as opposed to the predominant style of modern architecture known as the "International Style," which uses on average about 60% glass... like WTC Building 7, whose glass was also a part of the WTC dust.



Source: Paul Lioy, et. al.

"Each tower has fifty-eight vertical columns of windows per side, and each column is numbered. The [window washing] machine does about twelve columns of windows per day, so it takes five working days, or one week, to do one side of the building. There is a turntable at each of the four corners on the roof, so at the end of the week, the machine turns the corner to deal with another side. It takes four weeks, or one month, to do the whole building." - Gillespie, Ibid., p. 215

"The initial debris estimate included **125,000 tons of glass**, 250,000 tons of steel, 450,000 cubic yards of concrete, 12,000 miles of electrical cable, and 198 miles of ductwork." [emphasis added] (Phillips & Jordan, Inc., "Anatomy: World Trade Center/Staten Island Landfill Recovery Operation," p. 2. Document originally at the Disaster Recovery Group web site (dead link) but cached at 911depository.info.) Really? This and other initial debris mass estimates (collected below) were calculated in one of two ways, sometimes a mix of the two: observation or pre-9/11 inventory. The P & J number above must have been the second kind.

Silicate, or SiO<sub>2</sub>, is mixed with other materials to

lower the melting point of glass to about 1500°C (2700°F) – see <a href="http://en.wikipedia.org/wiki/Glass">http://en.wikipedia.org/wiki/Glass</a> – so if the NYPD Museum and the above photo are correct and the glass did melt, then there were some extraordinarily hot temps there. WTC fire temperature: 1000°C (NIST fags [7]).

<u>USGS</u> [emphasis added]: "Glass shards, fragments, and spheres are also present in the dust samples. The microscopic glass shards and fragments are less abundant than

the ubiquitous slag wool fibers in the fine dust (<150  $\mu$ m). Most of the glass fragments fall within the compositional range for soda lime glass, a common type used as window glass (TIMA, 1991). Other glass fragments are present which contain mostly Si with trace amounts of Na, K, and/or Al. The majority (> 90%) of glass spheres, generally less than 500  $\mu$ m in diameter, are of slag wool composition." So that 10% found in the dust... makes me wonder.

Glass was found mostly by mechanical means, when the Fresh Kills shaker screens separated the debris into different size classes. (See <u>above</u>.) "Upon their collapse, the twin towers were literally pulverized. Workers at the Staten Island Landfill reported not finding glass pieces larger than three inches." (<u>U.S. Army Corps of Engineers website</u> [cached])

To find the glass, one had to look in the dust.

"Small shards of glass containing mostly silica and magnesium were also found.[...]
This cloud comprised a complex mix of pollutants, among them the products of combustion of 91,000 L jet fuel, pulverized building materials, cement dust, asbestos, **microscopic shards of glass**, silica, heavy metals, and numerous organic compounds...."

- <u>Maoxin Wu, et. al.</u>, "Case Report: Lung Disease in World Trade Center Responders Exposed to Dust and Smoke: Carbon Nanotubes Found in the Lungs of World Trade Center Patients and Dust Samples," *EHP*, Dec. 2009. [emphasis added]

The WTC dust was composed of 40 percent glass fiber, according to one of the most comprehensive studies done. (Paul J. Lioy, et. al., "Characterization of the Dust/Smoke Aerosol that Settled East of the World Trade Center (WTC) in Lower Manhattan after the Collapse of the WTC 11 September 2001," *Environmental Health Perspectives*, Vol. 110, Number 7, July 2002.) Remember that windows weren't the only form of glass in the place. Not only were there light fixtures, mirrors, TVs and computer monitors, but also there was fiberglass insulation. This widely used insulation was also called slag wool or mineral wool. "These three [dust] samples were composed primarily of construction materials, soot, paint (leaded and unleaded), and glass fibers (mineral wool and fiberglass)." (Lioy, et. al.)

"The Cortlandt Street sample was mainly composed of construction debris [including vermiculite, plaster, synthetic foam, glass fragments, paint particles, glass fibers, lead (Figure 3), calcite grains, and paper fragments], quartz grains, low-temperature combustion material (including charred woody fragments), and glass shards. Chrysotile asbestos fibers were estimated to comprise < 1% of the sample by volume...." - Lioy, et. al., Ibid.

The U.S. Geological Survey said the "dust deposits formed from the WTC collapse are heterogeneous and are composed largely of particles of glass fibers, gypsum wallboard, concrete, paper, **window glass**, and other miscellaneous materials commonly used in building construction...." (<u>USGS</u>, "Environmental Studies of the World Trade Center Area, New York City, after September 11, 2001" [emphasis added, as in next 3 quotes].)

"The dust also contained a large amount of an **unusual** material: glass fibers. Both towers were 110 stories high and had 880 stories of windows in total since there were 110 stories with four walls times two sides of windows. These windows had been crushed by the collapse of the towers. These were different than other materials since the **glass windows disintegrated into fibrous dust** as well as glass chards [sic]."

- Paul J. Lioy, <u>Dust: The Inside Story of Its Role in the September 11th Aftermath</u>, Rowman & Littlefield, New York, 2010, p. 96.

"[O]ver 50 percent of the mass of the WTC dust was made up of the cement and carboneous materials. (Carbon is the fourth most abundant element found in inorganic and organic forms.) As part of the

carboneous materials, there were significant quantities of cellulose (paper). Most of the rest of the mass was made up of the glass fiber materials. Some of the **glass fibers were formed from the disintegration of glass windows**. Other fibers released during the collapse would have been part of interior wall board and ceiling tiles. Some of the fibers were characterized as slag wool and would become known as a specific and identifiable component of the WTC dust."

- Paul J. Lioy, Ibid., pp. 96-97.

"The fibrous material was composed of disintegrated material that was present in building interiors or on the exterior. As time went on, we would call a large portion of it slag wool, based on work by the United States Geological Survey. However, there were **other types of fibers that became of interest, including glass. The composition of the nonfibrous portion of the dust is simple to understand....**" - Paul J. Lioy, Ibid., p. 101.

...as opposed to the abundant, microscopic fibers of glass which is **hard to understand**, right? See my article "Glass a 'Rare Find' at Ground Zero" for more on this topic.

For many people working with the debris, it wasn't the construction materials so much as the personal, human things that were missing. "It was like the surface of another planet. ... All there was, was - powdered debris and metal. It was a - a very strange scene." (Dan Nigro, FDNY Chief of Dept. 2001-2002, in "The Conspiracy Files: 9/11," BBC, 2007.)

NYPD Deputy Inspector and lead investigator on-site at Fresh Kills (working with FBI), James Luongo, when asked if there were one particular artifact of interest, replied:



CRT vs. LCD

"I think the lack of artifacts stands out to me quite a bit. I think the fact that I haven't seen a door, I haven't seen a phone, I haven't seen a computer. I haven't seen a doorknob. I think that stands out." -"Relics from the Rubble" (History, 2002)

Note that there were roughly 42,000 doorknobs used in the construction of the WTC towers. (Karl Koch III with Richard Firstman, Men of Steel: The Story of the Family that Built the World Trade Center, Crown Publishers, New York, 2002, p. 322.) Another specific comment on the missing doorknobs came from author Dennis Smith above, heading the chapter "Bodies" and quoted once again a few paragraphs above, since he also listed glass as missing.

Mentioned by numerous recovery workers were the missing thousands of computers and computer monitors. Remember in 2001 most of the screens were cathode ray

tube (CRT) boxes, with thick glass and heavy metals, weighing about 20 pounds each. The vented plastic cases hogged most of a person's desk! And yet after the buildings fell, "There wasn't a computer screen, a laptop. There was no office- I mean it was, you know, two 110-story buildings – of office equipment. It's just incomprehensible." (see clip, Tom McHale, PAPD/Ironworker in "Metal of Honor: The Ironworkers of 9/11" by Rachel Maguire, 2006) "You don't find a desk. You don't find a chair. You don't find a telephone, a computer." (Joe Casaliggi, FDNY Engine 7 in "9/11: The Filmmakers' Commemorative Edition") "All the furnishings and the fixtures inside the building – none of that existed after the collapse. There were no desks. There were no phones, no computers, no copy machines. No chairs, nothing. It had all been pulverized. [...] It was just pulverized into this dust." (Captain Jay Jonas, FDNY Ladder 6 in "Inside the Twin Towers," Discovery Channel, 2006)

There must have been hundreds of copy machines, thousands of desks - each with a heavy cathode ray tube (CRT) monitor, a telephone, and a boxy computer. Adding in WTC Building 7, one researcher concluded "at least ten thousand PCs, in addition to hundreds of servers and mainframe computers connected to them, were pulverized into dust that day or vaporized by the fires in the subsequent months." (Juan González, Fallout: The Environmental Consequences of the World Trade Center Collapse, New Press, 2002, p. 21.) We can't forget the thousands of various chairs, tables, shelves with books and trinkets, the thousands of filing cabinets (some so large they required the floor trusses be reinforced to support the additional load [see NIST NCSTAR 1-1C screenshot]).... It's hard to estimate the mass of all these items combined, or to imagine how much space they should have occupied in the pile.

There were in fact hard drives recovered from the rubble. Interestingly, some were the subject of a Department of Defense investigation into suspicious financial transactions purportedly made from the doomed buildings in their final hour. Findings of the inquiry remain undisclosed, if there were any. The damaged hard drives, some encased in concrete dust, required a unique and expensive recovery process available only in Europe. Watch this important German TV news report from Mar. 11, 2002, which describes the intensive CONVAR Deutschland GmbH Data Recovery Center project. See another documentary source from 2006 [mirror]. The subject of foreknowledge and stock market activity – directly noted in the German report – is fully covered in the From the Wilderness article "Profits of <u>Death – Insider Trading and 9-11.</u>" A related European TV segment, "Zembla over voorkennis 9/11" (mirror) directly quoted this article and its source, Michael Ruppert, author of the acclaimed 9/11 conspiracy case Crossing the Rubicon: The Decline of the American Empire at the End of the Age of Oil (New Society, Gabriola Island, BC, 2004). In this paragraph, therefore, we have found another motive (greed) for incinerating the buildings' contents, if not only to speed up the recovery and cleanup process, thereby decreasing the window of opportunity for an investigation to begin.

While computer records had been obliterated, what was on paper had to be physically swept up with the dust. Some of the paper **was** dust. "In morphologic analyses we found that a majority of the mass was fibrous and composed of many types of fibers (e.g., mineral wool, fiberglass, asbestos, wood, **paper**, and cotton)," the 3 samples containing 9.2, 10, and 20% cellulose, for an average of 13.2% (Lioy, et. al., Table 1). "Significant amounts (≈10% of the mass) of cellulose were found in all three samples. This observation is consistent with the release of large amounts of disintegrated paper and other products that were originally part of the indoor work environments." (Lioy, et. al., Ibid.) "Because people worked in the offices and carried on their daily activities in the various businesses that were housed in the WTC or were visitors to the restaurants..., the WTC dust also contained cellulose from paper, napkins, and other paper products, but it was not present as free molecules since it was used in paper products." (Paul Lioy, <u>Dust</u>, Ibid., p. 95.) Nevermind the copy machines, printers, faxes....

When the planes hit the buildings, paper flew out and caught the wind. Reflecting the sun, it was captured in many videos "sparkling like glitter as if some sort of magic was involved in the catastrophe." (JoeFelice on YouTube, "Artifacts of 9/11.") Some of the paper flew to Brooklyn, as seen in the Jennifer Spell video. In the Spell video (also used by CameraPlanet) she picks up some singed paper (before the collapses), as much of the paper was (despite the ABC News quote below saying it was "fully intact"). Note the JoeFelice collection of paper fallen to ground in Brooklyn after the collapses was all partially burned, as he made a point of narrating... not that he necessarily chose them because of that detail.

(Two pieces feature black marks he thought was "tar." One piece of insulation/tin foil and another piece of unknown material were both also charred.)

The paper caught people's attention. But file cabinets – steel, most of them – were not there in anywhere near the ratio required by the amount of paper littering the streets. In a word: "pulverized. Large portions turned into clouds, like this one." (Robert Krulwich, <u>ABC News Sept. 13 at 7:35-7:40 p.m.</u>) He continues: "Still, there is this mystery. If some



Photo by Abe Conby, 9/11/2001 (NIST FOIA, 911datasets.org release 2)

of the hardest materials were vaporized, **how to account for the presence everywhere of paper** – fully intact letters, business forms, stationary. Paper is so fragile and combustible and yet somehow – maybe because we have so much of it – it was everywhere." [mirror 1 and 2.]



Source: Port Authority of N.Y. and N.J., NIST

More paper on the street images: 1. (NIST FOIA 911datasets.org release 14, CNN Dub4 Clip 29), 2. (John G./NFPA/NIST [Agree to terms, retry link.])
David Shayt of the National Museum of American History, Smithsonian Institution, made it known to the Port Authority Police and others that he was looking for a file cabinet. Shayt's employer had been allocated \$5 million by the U.S. Senate in order to collect September 11<sup>th</sup> memories ("Relics from the Rubble" at 7:40). Finally he got one delivered to him, but it was from the concourse level shopping mall, Ben & Jerry's ice cream to be specific. (Source [see also "Relics

from the Rubble" at 33:25]) Still it was scorched and melted beyond recognition.

Already quoted above was Assistant Chief of Department, FDNY, Harry Meyers. Yet another smart guy who "expected to see chairs and file cabinets and what was left of offices," although at Fresh Kills and not G.Z., was the narrator from part of "Collateral Damages," Mark Schaming (Director of Exhibitions at the N.Y. State Museum). Another man, experienced in disasters from being at the site of the Murrah Federal Building bombing: "I said, you know, in Oklahoma City you could see pieces of desks and chairs. There was something that told you this was an office building. At the World Trade Center site, it seems like everything was pulverized. (Col. John O'Dowd, U.S. Army Corps of Engineers in "World Trade Center: Rise and Fall of an American Icon")

A final thought here, in what seems to be the professional consensus:

"Fire Department Chief Mike Donoho of Texas Task Force 1 Urban Search and Rescue described the scope of the destruction, 'Everything had its own look. In the area surrounding what was the two twin towers, there were several buildings still standing that were burned from top to bottom, and some of them were damaged by the collapse. But the two towers - they were 110-story buildings. And there was nothing that you could put your hands on that resembled anything that would tell you this once was two 110-story office buildings. What you had were large columns of steel that were just stuck into massive amounts of molten steel and other metals, that had just fused together from the heat and bonded together from the strength of the collapse. We dug and we dug and we dug, and we cut and we cut and we cut, and we did not see anything that resembled any type of furniture, any type of personal belongings. We found some pieces of things like a telephone, things like that. I think we found credit cards a few times, and we found a couple of stuffed animals. But you would expect to see, like, a bunch of desks, a bunch of chairs. The only way I can explain it is, if you take a car and put it in one of those machines where they crush it and make it look like a cube, and you can't recognize what it is, that's what the whole area looked like. It looked like a massive, molten mess that had been fused together, like a car that had been cubed and crushed. With all that heavy, heavy stuff, there were wires, rebar, concrete. Most of it was just steel. A lot of what we were walking on was just molten steel." - http://www.theeagle.com/septanniv/091102firefighter.htm

The extreme devastation at the WTC led Dr. Judy Wood to believe there was some kind of directed energy weapon used. I'll give no credence to it, but her book is "Where Did the Towers Go?" She rejects the notion of extreme heat, despite all the evidence to the contrary.

### MOLTEN STEEL

"I came across an I-beam that was molten metal, just bubbling away."

- Firefighter Mickey Conboy in <u>WTC In Their Own Words</u>, Harvey Eisner, Ed., Cygnus Business Media, 2011, p. 197. Conboy was describing the first 2 days of rescue operations.

See the NIST 2006 <u>answers to frequently asked questions</u> (number 13) for the explanation of their investigation's disregard for this [non-] evidence, fully quoted here (emphasis added):

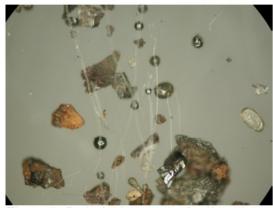
"NIST investigators and experts from the American Society of Civil Engineers (ASCE) and the Structural Engineers Association of New York (SEONY)—who inspected the WTC steel at the WTC site and the salvage yards—found no evidence that would support the melting of steel in a jet-fuel ignited fire in the towers prior to collapse. The condition of the steel in the wreckage of the WTC towers (i.e., whether it was in a molten state or not) was **irrelevant to the investigation of the collapse** since it does not provide any conclusive information on the condition of the steel when the WTC towers were standing. "NIST considered the damage to the steel structure and its fireproofing caused by the aircraft

impact and the subsequent fires when the buildings were still standing since that damage was responsible for initiating the collapse of the WTC towers.

"Under certain circumstances it is conceivable for some of the steel in the wreckage to have melted after the buildings collapsed. Any molten steel in the wreckage was more likely due to the high temperature resulting from long exposure to combustion within the pile than to short exposure to fires or explosions while the buildings were standing."

The last sentence above – like the entire official theory – was a logical assumption that ignored evidence to the contrary – specifically the spherical iron (etc.) particles in the dust, discussed below. And saying "the condition of the steel in the wreckage of the WTC towers (i.e., whether it was in a molten state or not) was irrelevant..." – was tantamount to saying the whole steel inventory of evidence was altogether worthless because conditions in the pile had tampered with it. True, the crime scene had been destroyed after a matter of days/weeks, but the scattered evidence wasn't all tainted, or else the N.I.S.T. wouldn't have spent hundreds of hours analyzing its 236 pieces more than a year after 9/11. (See above, "Investigations.")

Due to the high temperatures involved in liquifying iron, this phenomenon cannot have come from any length of exposure to "combustion within



**Figure 1.** Optical micrograph of collected dust particles observed in WTC dust sample 2, showing shiny metallic and semi-transparent silicate-rich spherules. (For example, the pill-shaped droplet at far right is silicate rich.)

Source: Steven Jones, et. al, Journal of 9/11 Studies

the pile" *unless* under the ideal circumstances of a <u>blast furnace</u>. Other than the accidental creation of such a design, the only logical conclusion is that the extreme temperatures were in fact present during the *demolitions*. Then the molten steel was insulated and its temperature preserved. A random arrangement of fallen building structure would easily cause this type of void before creating a blast furnace. (I'm no engineer, so use your own judgment.)

Witnesses to the molten iron/steel have built a strong case. Of course none of them was aware they were involved in reporting data dangerous to the official story.

"The fires got very intense down there and actually melted beams where it was molten steel that was being dug up." (Richard Riggs, Debris Removal Specialist in "World Trade Center: Rise and Fall of an American Icon," History, 2002. [Watch for his name at 51:26. The quote is from vrt 54:00.]) How/when was this heat created? Fires in the pile, he must assume.

Voicing wonder, Fire Department Captain Philip Ruvolo also testified to the presence of molten steel on camera. "You'd get down below and you'd see molten steel – **molten steel** running down the channelways, like you were in a foundry – like lava." His FDNY brothers sitting with him agreed with that observation. <u>Watch</u>. Source: Etienne Sauret's film "Collateral Damages." A popular review of that film chose to describe the above scene, emphasizing the shocking reality of "heat so intense they encountered rivers of molten steel." (Lou Lumenick, "Unflinching Look Among the Ruins," *New York Post*, March 3, 2004.)

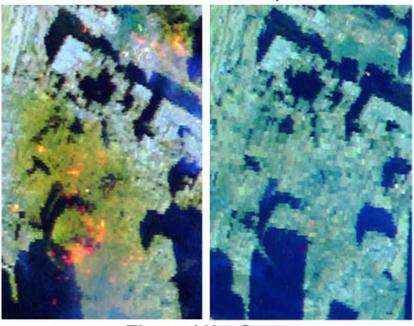
"I saw melting of girders in [the] World Trade Center," said structural engineer Abolhassan Astaneh on PBS "Newshour," May 10, 2007. He was a professor of civil and environmental engineering at the University of California at Berkeley, who specialized in structural damage done by earthquakes, etc. He flew to New York on September 19, 2001 to help investigate the collapse of the towers. He gained access to much of the steel taken from

Ground Zero. Astaneh came across "severely scorched [steel] members from 40 or so floors below the points of impact [by the planes]." (David Kohn, "Culling Through Mangled Steel," CBS News, March 12, 2002.) Well how did that happen? Was that documented? Where is that steel now?

"A veteran of disasters from the Mississippi floods [to] Mt. St. Helens, [Ron] Burger said it reminded him most of the volcano, if he forgot he was in downtown Manhattan. **'Feeling the heat, seeing the molten steel, the layers upon layers of ash, like lava**, it reminded me of Mt. St. Helen's [sic] and the thousands who fled that disaster,' he said." - Francesca Lyman, "Messages In the Dust," National Environmental Health Association, Sept. 2003 [emphasis added]. (Ron Burger was "a public health adviser at the National Center for Environmental Health, Centers for Disease Control and Prevention, who arrived in New York to help September 11.")

Les Robertson [Leslie E. Robertson Associates], directing engineer while building the Trade Center, in a presentation April 9, 2002 at Stanford University, said he personally saw workers pull off "a big block of concrete and there was a – like a little **river of steel** flowing" at the B1 level of the WTC debris pile. (Watch [mirror]— Source, NIST FOIA 911datasets.org release 29, folder 42A0346 — G29D32.) Describing a different speaking appearance by Robertson at the National Council of Structural Engineers Associations 9th Annual Conference, one source wrote, "As of 21 days after the attack, the fires were still burning and molten steel was still running." (James Williams, "SEAUNEWS, The Newsletter of the Structural Engineers Association of Utah," October 2001, p. 3. Source file expired: http://www.seau.org/SEAUNews-2001-10.pdf, but quoted here and here.)

# World Trade Center area, New York



Thermal Hot Spots September 16, 2001 September 23, 2001

http://pubs.usgs.gov/of/2001/ofr-01-0405/ofr-01-0405.html

The assumed culprit in the WTC molten steel fiasco - Ground Zero "hot spots" - was

<u>captured by aerial photography</u>. On Sept. 16 and 23, photos were taken using Airborne Visible/Infrared Imaging Spectrometer (AVIRIS). See "<u>Fires in the Rubble Persisted for Months</u>," by Jim Hoffman. Find much more at 0x1a.com....

Author and DDC-approved journalist William Langewiesche was below the surface of "the pile," exploring with engineers on more than one occasion. In <u>American Ground</u> he mentioned "the rattle of cascading debris, the ominous groaning of weakened structures overhead, or, in the early days, the streams of molten metal that leaked from the hot cores and flowed down broken walls inside the foundation hole." (Langewiesche, p. 32.)

"Metal of Honor: The Ironworkers of 9/11" (Rachel Maguire, 2006) featured numerous fascinating comments on the extreme heat of underground fires, which the film confirms were finally extinguished mid-December. (Rivers of molten steel were not mentioned.) One experience from ironworker Larry Keating is repeated in a review by Linda Stasi: "The film shows how they crawled down through and up 100 feet of hot steel, even though sometimes it could explode when the buried ends were exposed to the air." (See <a href="http://www.najaproductions.com/">http://www.najaproductions.com/</a>...) Specifically, Keating said: "The grapplers were pulling stuff out, big sections of iron that were literally on fire on the other end. They would hit the air and burst into flames – which was pretty spooky to see." (Watch [mirror])

"America Rebuilds" (mirror at 3:25) included comments on the extreme temperatures also, specifically mentioning "molten steel." One of the workers said the fires were at one point "twenty-eight hundred degrees," which in degrees Fahrenheit is a good round number for steel's melting point. While this could have been an overstatement, it was important information that should not have been discounted.

"It's still cooking,' said Thomas O'Connor, who manages the construction and engineering work at the site for the Port Authority of New York and New Jersey, which owned the buildings and arranged for the tour through the basement.

"In the days after the collapse of the towers two months ago, the tangled steel was still so hot that it glowed like charcoal briquets in the unlighted basement, Mr. O'Connor said, adding, 'For seven weeks it was surreal down here.'"

- James Glanz, <u>Below Rubble</u>, a <u>Tour of a Still-Burning Hell</u>," *New York Times*, Nov. 15, 2001, p. B1. (See the same article to read: "A three-foot **stalagmite of steel**, which looks for all the world like a drip candle, sits next to one of the immense steel columns that held up the north face of the tower.") Missing.

Witnesses continued to report molten steel in a voice of wonder.

"In the first few weeks, sometimes when a worker would pull a steel beam from the wreckage, the end of the beam would be dripping **molten steel**,' said Greg Fuchek, vice president of sales for LinksPoint Inc., maker of the GlobalPoint Global Positioning System receiver used to track debris and/or human remains recovery locations in the pile." (Trudy Walsh, "Handheld App Eased Recovery Tasks," Government Computer News, Vol. 21 No. 27 a, 9/11/2002. [cached])

Bronx firefighter and recovery worker Joe "Toolie" O'Toole remembered "seeing a crane lift a steel beam vertically from deep within the catacombs of Ground Zero. 'It was dripping from the **molten steel**,' he said." (Jennifer Lin, "Recovery Worker Reflects On Months Spent At Ground Zero," Knight Ridder Newspapers, May 29, 2002. [cached])

"Guy Lounsbury with the 109th Air Wing of the New York Air National Guard wrote 'The men who work on this must constantly change their boots as the heat melts them. Two weeks after the attack, one fireman told us that there was still **molten steel** at the heart of the towers' remains." (Source – www)

Yet when confronted with a question about pools of molten steel on camera in April 2007, a leading NIST investigator John Gross said he had heard of no eyewitnesses (mirror 1 & 2). Selective hearing, perhaps? That statement sounds like confirmation that molten steel should not have been present. The ideal conditions of a blast furnace accidentally falling into place were apparently slim to none, however "conceivable" it had to be. (NIST FAQ 13, Ibid.)

The persistent, extreme heat was definitely no secret.

"Another danger involved the high temperature of twisted steel pulled from the rubble. Underground fires burned at temperatures up to 2,000 degrees. As the huge cranes pulled steel beams from the pile, safety experts worried about the effects of the extreme heat on the crane rigging and the hazards of contact with the hot steel. And they were concerned that applying water to cool the steel could cause a steam explosion that would propel nearby objects with deadly force. Special expertise was needed. OSHA called in structural engineers from its national office to assess the situation. They recommended a special handling procedure, including the use of specialized rigging and instruments to reduce the hazards."

- http://www.osha.gov/Publications/WTC/dangerous worksite.html

"The temperature at the core of 'the pile,' is near 2000 degrees Fahrenheit, according to fire officials." ("Search Continues," ABC News website, Sept. 18, 2001.)

- "...the scale of the trade center burning is vast, with thousands of plastic computers, acres of flammable carpet, tons of office furniture and steel and reservoirs of hydraulic oil and other fuels piled upon one another. Steel beams pulled from the debris at times are so hot they are cherry red. Benzene, propylene, styrene and other chemicals generated by the combustion of computers, office products and fuels drift through the air."
- Eric Lipton and Andrew C. Revkin, "With Water and Sweat, Fighting the Most Stubborn Fire," New York Times, Nov. 19, 2001, p. B1.

Somehow, though, steel in places was more than cherry red (1,500 degrees Fahrenheit – <u>source</u>, www), it was liquid. This was despite the virtually constant application of water onto the pile – 3 million gallons between 9/11 and 9/21, plus at least 2 rain events. (<u>P. Parekh, et. al.</u>, "Tritium in the World Trade Center September 11<sup>th</sup>, 2001 Terrorist Attack: Its Possible Sources and Fate," May, 2002, p. 9.) Not that G.Z. was unique in that type of fire fight. See examples of landfill fires: <u>1</u>. and <u>2</u>.

"Molten steel was encountered primarily during excavation of debris around the South Tower when large hydraulic excavators were digging trenches 2 to 4 meters deep into the compacted/burning debris pile. There are both video tape and still photos of the molten steel being 'dipped' out by the buckets of excavators. I'm not sure where you can get a copy.

Sorry I cannot provide personal confirmation.
Regards,
Mark Loizeaux, President
CONTROLLED DEMOLITION. INC."

- personal communication to "honway" posted Dec. 13, 2003 at <a href="http://libertypost.org/cgibin/readart.cgi?ArtNum=30926">http://libertypost.org/cgibin/readart.cgi?ArtNum=30926</a>

The "video tape and still photos of the molten steel" of which Loizeaux spoke have not surfaced in the 9/11 research community. The strange **lack of photographic evidence** has significantly deflated the case built by more than a dozen credible witnesses, as listed here.

So what is there in the image database?

Not much exists to support the multitude of claims, not counting the re-solidified blocks included by NIST as "fused steel and concrete." There were many of these, apparently. A "fused element of steel – molten steel and concrete and all these things fused by the heat into one single element." (Bart Voorsanger, "Relics from the Rubble." [download mpeg-2]) Note that "the melting point of concrete varies between 1800-2500°C" (weldcare.co.uk...). Iron melts at 1535°C. (source – www. Structural steel melts at about 20 degrees lower temp.) The phenomenon was [also] found at WTC Building 6 in the ruins of an exploded ammunition and arms stockpile. Exact digging locations for each of the so-called meteorites aren't known. When they were last in a molten state is unknown. Not conclusive evidence.

Likewise, no photos of "molten steel" can be proven authentic. There are a couple shots from excavation worker <u>Frank Silecchia</u>, with <u>glowing orange metal</u> in darkness. The



<u>second example</u> has unfortunately been shown as a forgery using at least 3 images Photoshopped together, although not for certain faking the orange glow. Sadly this photographic evidence was placed at the top of Steven Jones's infamous "conspiracy theorist" paper, "Why Indeed Did the WTC Buildings Completely Collapse?"

Video often cited as evidence pre-collapse shows the south tower's northeast corner on the 80<sup>th</sup> floor dripping a fountain of sparks and yellow-orange, apparently liquid metal. This event happened in the final minutes of the building's incredibly short 56-minute stand post-plane impact. Official explanation:

"NIST concluded that the source of the molten material was aluminum alloys from the aircraft, since these are known to melt between 475 degrees Celsius and 640 degrees Celsius (depending on the particular alloy), well below the expected temperatures (about 1,000 degrees Celsius) in the vicinity of the fires. Aluminum is not expected to ignite at normal fire temperatures and there is no visual indication that the material flowing from the tower was burning.

"Pure liquid aluminum would be expected to appear silvery. However, the molten metal was very likely mixed with large amounts of hot, partially burned, solid organic materials (e.g., furniture, carpets, partitions and computers) which can display an orange glow, much like logs burning in a fireplace. The apparent color also would have been affected by slag formation on the surface."

- NIST website, FAQ 11.

Another possible contributing factor for this glowing "slag formation" was the presence of numerous, large lead acid batteries on floor 81. <u>NIST NCSTAR 1-1C</u>, Table 4-6 on page 116 listed a structural reinforcement done to the floor trusses to support the UPS (uninterruptible

power supply), but failed to elaborate. If jet fuel started and spread the fire, then the volatile battery room in the path of the plane's starboard engine maintained it. (See above section under "Investigations," titled "The Second Plane" or "NIST, ARA Error Speaks Volumes.") For more details see the Italian blog "11 Settembre," which took its readers inside a UPS room. This solid evidence of highly flammable and corrosive fuels has devalued the WTC 2 molten fountain for purposes of relevant conspiracy theories involving thermite, despite the appearance of "trademark" white smoke and matching yellow-orange flow. (It was during the collapse that the white smoke, "characteristic of aluminum oxide which is a byproduct of the thermite reaction," was the focus of the video "South Tower Smoking Guns" by David Chandler of http://911speakout.org.)

Watch the molten spill event(s) in <u>Ben Riesman's 9/11 tape</u> [mirror clip], the <u>Damas home video</u> (source NIST FOIA 911datasets.org release 14, WCBS Dub1 24), the more famous <u>CameraPlanet video</u>, the <u>Alfie Alvarado</u> footage [mirror] (Source: "102 Minutes that Changed America," History, 2008), the <u>Luigi Cazzaniga video</u> (Source: NIST FOIA 911datasets.org release 14 [and "In Memoriam: New York City 9/11/01," HBO, 2002]), <u>ABC News</u> LIVE on 9/11, and others. When WTC 2 began to crumble, <u>orange sprayed out</u>.

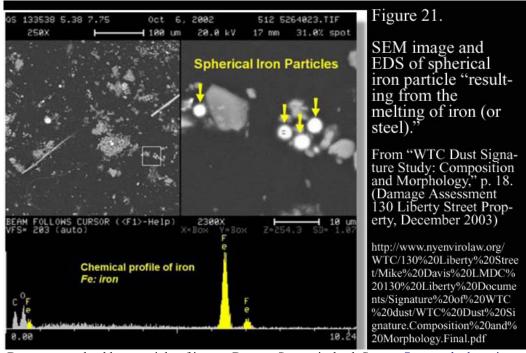
Already seen above was a photo taken through a microscope, of molten metal and silica/glass from the Journal of 9/11 Studies paper "Extremely High Temperatures During the World Trade Center Destruction" by Steven E. Jones, Jeffrey Farrer, Gregory S. Jenkins, Frank Legge, James Gourley, Kevin Ryan, Daniel Farnsworth, and Crockett Grabbe. Quoting from that:

"The formation of molten spheres with high iron contents along with other species in the WTC dust required extremely high temperatures. Our results are compared with those of other laboratories. The temperatures required for the molten sphere-formation and evaporation of materials as observed in the WTC dust are significantly higher than temperatures associated with the burning of jet fuel and office materials in the WTC buildings."

Arguments against this alleged smoking gun have raised the equivalent of a legal shadow of a doubt, if the evidence is viewed alone and out of the context outlined in the pages above (not to mention the motive, means and opportunity for those in power with much to gain from a false flag attack). "The problem with microspheres" – or "spherules" – is proving exactly what source of heat caused them. Their recurrence in numerous WTC dust samples was never questioned, although "just how abundant" is good to know. According to one study:

"Particles that either were formed as a consequence of high temperature or were modified by exposure to high temperature are important WTC Dust Markers [. . .] Considering the high temperatures reached during the destruction of the WTC, the following three types of combustion products would be expected to be present in WTC Dust. These products are:

- Vesicular carbonaceous particles primarily from plastics
- Iron-rich spheres from iron-bearing building components or contents
- High temperature aluminosilicate from building materials"
- RJ Lee Group, "WTC Dust Signature Report, Composition and Morphology," December, 2003, p. 16.



Do not use web address at right of image. Danger. Source is dead. See wtc7.net cached version.

That report was tasked with outlining the major characteristics of the WTC dust to scientifically prove that **it** was what caused the contamination of the 130 Liberty Street property. (So when it said <u>iron-rich spheres</u> "would be expected to be present" that meant in contrast to any ordinary office dust. Thus they were "WTC Dust Markers.") **The composition of their WTC dust sample was 5.87% "Fe sphere" according to table 3, p. 24.** "Particles of materials that had been modified by exposure to high temperature, such as spherical particles of iron and silicates, are common in WTC Dust because of the fire that accompanied the WTC Event...." The extent and cause of the fire – essentially a mystery considering the extreme temperatures – was not theirs to discuss.

It should go without saying that the minimum temperatures required to form iron and silicate spheres – to literally melt steel and glass – were not reached by the fires seen before collapse in the WTC. Besides, those fires didn't create the falling-through-air situation required to form spheres of molten material. (Welding may account for some of it. Read on.)

"In no instance did NIST report that steel in the WTC towers melted due to the fires. The melting point of steel is about 1,500 degrees Celsius (2,800 degrees Fahrenheit). Normal building fires and hydrocarbon (e.g., jet fuel) fires generate temperatures up to about 1,100 degrees Celsius (2,000 degrees Fahrenheit). NIST reported maximum upper layer air temperatures of about 1,000 degrees Celsius (1,800 degrees Fahrenheit) in the WTC towers (for example, see NCSTAR 1, Figure 6-36)."

- NIST fags [7]

Researcher Frank Greening (Ph.D.) argued with Steven Jones (Ph.D. co-author of "Extremely High Temperatures During the World Trade Center Destruction" quoted above) in email debate/correspondence from 2007 that "fly ash is frequently used as aggregate in lightweight concrete, so microspheres may have been present in the Twin Tower's [sic] concrete even before the fires of 9/11." The <u>U.S. Geological Survey</u>'s dust study made a

relevant statement: "Fe-bearing minerals are common in the aggregate in concrete." On another USGS page we read, "Concrete is composed of aggregate, sand, and Portland cement (Chandra and Berntsson, 2003). The aggregate material in WTC concrete sample appears to be expanded shale." (USGS, "Particle Atlas of World Trade Center Dust.") It wasn't specified whether or not their sample was lightweight concrete from the majority of tenant floors, or not.

Greening also argued that "iron-rich" microspheres in ashes have been shown to originate from <u>incinerated waste</u> in temperatures similar to those on 9/11 (only up to 1200 degrees Celsius), as well as in coal fly ash production at temps less than 1,400. Naturally-occurring chemical reactions – not only heat – were relevant, Greening asserted.

One non-partisan analysis used the words "fly ash" a few times: "The conflagration activated processes that caused materials to form into spherical particles such as metals (e.g., Fe, Zn, Pb) and spherical or vesicular silicates or fly ash." (RJ Lee Group, op cit., p. 3.) "In addition to the vesicular carbon components, the **high heat exposure of the WTC Dust** has also created other morphologically specific varieties of particulate matter including spherical metallic, vesicular siliceous and spherical fly ash components." (Ibid., p. 7.) Notice "spherical metallic" is separate from "spherical fly ash" in their wording. Finally:

"In addition to the spherical iron and aluminosilicate particles, a variety of heavy metal particles including lead, cadmium, vanadium, yttrium, arsenic, bismuth, and barium particles were produced by the pulverizing, melting and/or combustion of the host materials such as solder, computer screens, and paint during the WTC Event.

"Combustion-related products are significant WTC Dust Markers, particularly if seen in combination. However, it is worth noting that fly ash and partially combusted products can occur in trace concentrations in ordinary building dusts, but not in the concentrations observed in WTC Dust."

- RJ Lee Group, <u>Ibid.</u>, p. 19.

At the end of the discussion with Jones (Mar. 1, 2008) Greening asks, "How does Jones rule out welding/cutting debris in the dust from construction activities?" Good question. According to WTC steel erector Karl Koch III, the huge job of welding ate up the majority of labor costs. On page 295 of Men of Steel, he spoke of "installing hundreds of thousands of shear-connector studs, bolts welded to the tops of beams designed to anchor the concrete that would later be poured on each floor." Unless there was a sweeping/vacuuming crew, the concrete would have extra iron content from welding debris. It was not specified exactly how much of the other welding was done before concrete pouring.

This is the "shadow of a doubt" in which some can find shade. Aluminosilicate spheres (creation temperature about 1450 degrees Celsius) remain unexplained. (Jones, et. al., op cit..) Previously seen melted glass (silicate, not necessarily window glass) also **contained iron** particles, as described by investigator Mark Basile in his WTC dust study. ("9/11 Dust Raises Questions," Lancaster, New Hampshire on June 26th, 2010.) Silicates should not have been magnetic, but were.

Basile made an interesting point that the majority of his dust sample's iron spheres were **not** from A36 structural steel. (See his <u>video at 35:30</u>.) This has agreed with the photographic record, which has found <u>little evidence of melted beams</u>. Steel cubicle partitions and filing cabinets, maybe the floors and trusses.

Another bit of interesting data comes in the form of melted molybdenum (2623 degrees Celsius) and *vaporized* aluminosilicates (2760 degrees Celsius). (Steven Jones, et. al., "Extreme Temperatures...") It stands to reason, then, that there would have been vaporized steel (2750°C source).

"Engineers at the firm that built the buildings best guess to account for the missing twelve hundred feet of material from each tower is that large portions simply **vaporized** into the dust that rained down on New Yorkers immediately after the collapse.

[...]

But most interesting: In the mix they are looking, they think, at specks of steel that used to be beams and elevators, marble from the lobby floor and facings..."

- Robert Krulwich, ABC News Sept. 13, 2001 at 7:35 p.m.

WTC dust expert Dr. Paul Lioy didn't touch the subject other than to mention University of California, Davis researcher Dr. Thomas Cahill's interesting finding of "fused iron spheres." (Lioy, <u>Dust</u>, Ibid., p. 154. ["I felt that the WTC air quality issue did not gain any substantially new information at the meeting. Some new chemicals were mentioned by Dr. Cahill, such as fused iron spheres, and they added to a long laundry list of compounds released during the collapse and fires."]) Lioy and Cahill took part in the American Chemical Society Meeting, Sept. 7-12, 2003 in New York. Sept. 12, 2003 was the date on Cahill's "<u>Very Fine Aerosols from the World Trade Center Collapse Piles: Anaerobic Incineration?</u>" That paper did not mention iron spheres once.

Besides that 5.87 percent, so much else was in the dust.



# **Dust**

"The pile – now removed – consisted primarily of dust made up of the pulverized contents of the towers." - <u>Laura Kurgan</u>, "<u>Around Ground Zero</u>," March, 2002.

It blanketed lower Manhattan. It was shoveled and bulldozed like snow, intermingled paper giving the proper color, even. In fact, the NYC Department of Sanitation (NYDS) "revised its snow removal operational scheme and began implementing a plan based on many of its winter weather strategies." (Tom R. Arterburn, "D-Day: NY Sanitation Workers' Challenge of a Lifetime," waste360.com, 2002) The rain on the 14<sup>th</sup> wasn't much help.

The debris pile was sprayed with water constantly, even after the fires were defeated in December, wherever the giant excavators were working – because the poisonous dust and ash was so fine that its re-suspension in air happened so easily when moving anything. (Lioy, et. al., p. 713.) The dump trucks had to be sprayed before leaving the site, but this wasn't done well early in the effort (photos by Nicolas Cianca). FDNY and city (NYDS) water was replaced with civilian sources (construction contractors drawing on federal aid from FEMA. See "The Big Four" above.) officially on December 1. (Tom Arterburn, "D-Day," Ibid.)

"Mountains" of it ran through the conveyor belts at Fresh Kills. (Mark Schaming, Director of Exhibitions at the N.Y. State Museum in "Collateral Damages" - quote below) That is, combined with the dirt and asphalt millings brought *into* the site to make roads and brace certain areas. (See "<u>Truckloads</u>," above.)

"We saw nothing we could recognize in the field. We expected to see chairs and file cabinets and what was left of offices. Everything was reduced to the finest state. It basically looked like mountains of dirt." - "Fresh Kills" chapter of "Collateral Damages," Sauret, 2003.



WTC dust, New York Historical Society (<u>nytimes.com</u>)

So much has been said about the dust already, in the chapters above. Re-read "Bodies," for example. And the section before this chapter, "Molten Steel." Vaporized metal, mind you. Everything "smashed to atoms." (Tim Cothren, camera operator on ABC News 9/12 at 11:53 p.m.) Pulverization on a massive scale.... The WTC erupted with particulate matter, bits much smaller than expected by professional first responders and PhD's alike. (See video "9/11 Debris: An Investigation of Ground Zero").

Quotes: "Everything was dust and metal." (Lt. Kenneth Christiansen, FDNY Ladder 5 in "Relics from the Rubble" History, 2002) "The building collapsed to dust." (Joe Casaliggi, FDNY Engine 7 in "9/11: The Filmmakers' Commemorative Edition" Naudet-Hanlon, Paramount, 2002) "All the furnishings and the fixtures inside the building – None of that existed after the collapse. There were no desks. There were no phones, no computers, no copy machines. No chairs, nothing. It had all been pulverized by the tremendous amount of energy that was created by this collapse. It was just pulverized into this dust." (Captain Jay Jonas, FDNY Ladder 6 in "Inside the Twin Towers," Discovery Channel, 2006) Environmental medical doctor Stephen Levin was interviewed by ABC sometime before 9/13 evening news. Levin said, "I was astonished at the degree to which solid materials were turned into pulverized dust as a consequence of that building collapse. I think it was striking." (ABC 9/13/2001)

How much of the buildings blew away in the (9 to 10 MPH winds)? ...as soot and ashes

or microscopic charred wood fragments, six acres of obliterated marble walls, powdered cement from 425,000 cubic yards of concrete, tons of microscopic shards of glass and glass fibers, and countless "grindings" of thousands of computers and cubicles, office walls, doors, carpet, refrigerators, toilets, vending machines... nothing recognizable.

Watch the three "collapse" events again. How do you measure those clouds? With all this talk of extreme pulverization of the debris, we have to ask if there was too much dust and ash to be explained by a gravity-driven collapse.

Was there? See some images from different sources to get a feel for the cloud that killed, then escaped into the air and flew. Watch some video to



#### FADING FOOTPRINT

So much of the Trade Center ended up as ash, incinerated. A whole terrain of loss at Fresh Kills carefully catalogs what was left behind.

PHOTO BY BETH A. KEISER/AP

time.com "So much of the Trade Center ended up as ash, incinerated."

better understand the blackness within the cloud: <u>Dr. Mark Heath</u> and <u>CBS camera Mark Laganga</u> also <u>CameraPlanet Archive</u>. See the <u>WNYW FOX5 NY</u> shot of the South Tower plume; and don't forget the <u>WTC Building 7</u> cloud on <u>MSNBC</u>... <u>CBS</u>... There were 3 clouds, after all.

"[T]he scene looked like Pompeii after the eruption of Mount Vesuvius. Inches of ash on the ground." - John Bussey, "The Eye of the Storm," The Wall Street Journal, Sept. 12, 2001, p. A4.

Possible evidence of explosive demolition relating to the dust was the density resembling <u>pyroclastic flow</u> from a volcano. The argument says that the energy required to generate the exponential growth of volume of dust (specifically after the North Tower "collapse") was decidedly too high to be explained by a gravity-driven collapse. Please see <u>911research.wtc7.net</u> for Jim Hoffman's quest for "proof" using volume. It would logically follow that the initial blast of dust would have been hot. Not 1,000C hot, of course. But...

# **HOT CLOUD**

We know there was extreme heat. But during the collapse(s)? Maybe due to friction and force only? That's basically the story. The question is how hot was it during the "collapse" and during the creation of the dust clouds.

First a few witnesses. See the article "Ground Level Fireballs Disprove Official WTC Collapse Theories" New York Post journalist Don Halasy describes the blast of warm air on CBS News here. CBS News correspondent Carol Marin describes the "giant ball of rolling flame" that came from street level (video). One of the last people to escape from the South Tower was severely burned as he ran. See the short videos "ABC Witness saw fireball and was blown across street" and "WTC survivor, Ron DiFrancesco."

"Then the dust cloud hits us. **Then it got real hot.** It felt like it was going to light up almost." -Thomas Spinard, FDNY Engine 7

"A wave — a hot, solid, **black wave of heat** threw me down the block." – David Handschuh, New York's Daily News

"When I was running, some **hot stuff went down by back**, because I didn't have time to put my coat back on, and I had some — well, I guess between first and second degree burns on my back." -Marcel Claes, FDNY Firefighter

"And then we're engulfed in the smoke, which was horrendous. One thing I remember, it was hot. **The smoke was hot and that scared me**" -Paramedic Manuel Delgado

"I remember making it into the tunnel and it was this **incredible amount of** wind, debris, **heat**...." -Brian Fitzpatrick FDNY Firefighter

"A huge, huge blast of **hot wind** gusting and smoke and dust and all kinds of debris hit me" -Firefighter Louis Giaconelli

"This **super-hot wind** blew and it just got dark as night and you couldn't breathe" -Firefighter Todd Heaney / Quotes compiled from Kevin Ryan's blog.

"When I get to the rig, about half a block down West Street, the building came down. It is the most amazing thing I have ever seen in my life.

"At first I look up and I hear a boom and a strange noise. I can't really describe it [...] We hold each other, and then we get engulfed in that cloud right away. And we don't know what it is. It is such a weird color, and we don't know if it is going to light up or not. It is very hot.

"We are in front of 90 West Street, just across the street from the south tower, and we really try to outrun it, but the cloud hits us so fast that we cannot run anymore."

- Battalion Chief Tom Vallebuona, Battalion 21, in Dennis Smith's Report from Ground Zero, op cit., p. 123.

"[T]he second building is starting to come apart. [...]

"We run across the street back towards the World Financial Center and get to those big floor-level windows. Luckily for us the glass had been knocked out when the first building came down, so we [were able to] jump into the [lobby] and hide behind a large column just in the interior. But with all the windows out, it is like a large, open garage space. Then, hiding behind this column, my arms crossed like a mummy, I begin to feel the power of all the debris and rubble rushing past. And there is a great deafening noise. It feels like the world is falling apart. If you've ever been at a demolition site, where you hear a building coming down, if you magnify that by a hundred or a thousand, it might have given you a good idea [of the sound].

"So I stay pressed against the column, and first I feel a positive wave of energy go by, and then a negative pressure because it is creating a vacuum, and I am hoping that it doesn't suck me out. And then I can't breathe. I try to put my mask on, and then there is a **tremendous amount of heat**, but it only lasts for a minute before everything goes black."

- Firefighter Phil McArdle, Hazmat Unit 1S in Dennis Smith, Ibid., p. 119. (Brackets in italics were in the original.)

Similar stories from both towers. More from the second "collapse": Again, as in "Survivors" above, I quote from one of the "miracles" in the stairway:

"...and as I turned the corner on the third floor landing, the stairwell just erupted into a hurricane... This huge incredible force of wind and debris **actually came up the stairs**, knocked my helmet off, knocked me to the ground.... It was pitch black, a large amount of dust in the stairwell..." [emphasis added] - Firefighter Rob Bacon describes the WTC 1 event in "9/11: The Firefighters' Story," Paul Berriff, 2002.



Craig Monahan's rig. Source: NYDailyNews.com

Vacuum from above? Explosions below? I won't speculate. There are only questions.

I'm led to believe that heat from the buildings destroyed vehicles by the dozens, melting plastic, frying paint, and exploding gas tanks in some cases (See Ondrovic quote below). Was it all just fire spreading by embers and jet fuel? See quote below. I'm not sure.

A certain blue pickup truck only got scorched... by surrounding vehicle fires, maybe? Its "front lights had melted into what looked like huge tears." (Michael Daly, "Give

This Pickup Truck the Gold," NYDailyNews.com, Aug. 11, 2008.)

"Craig drove down to the scene after the second plane hit. When the second building came down, the truck's windshield was blown out, the paint started on fire, and the headlights melted. At the same time, the ladder truck got completely destroyed by the fire. So Craig took the 5 sign off the rig, the one that goes alongside the FDNY, and puts it on the pickup truck. [emphasis added]

"That's now our truck, and we drive back and forth every day to the scene in it."

- Lieutenant O'Neill, FDNY Ladder 5, in Dennis Smith, Ibid., p. 260.

Dr. Judy Wood, notorious for her bizarre theory of WTC demolition by exotic directed energy weapons, has collected photos of such vehicles. Visit her 2006 webpage, "<u>Toasted Cars</u>," at your own risk – with no endorsement from this author! Cars burned.

"I was still on Vesey, [be]cause the building that blew up on me was on Vesey, it was on the corner next to the West Side Highway. Cause I know I was running west, I didn't run that way. Thank God, I would have been dead had I run the other way. But I ran towards the West Side Highway, and I kept running up Vesey. As I was running up Vesey, **the first car blew up on me** on the corner of Vessey [sic] and the West Side Highway. That set my turnout coat on fire, that set my hair on fire, and that set my feet on fire. I kept running. I got news for you, those turn out coats need to be called burn out coats, cause this thing **caught up in flames**. They cut two inches off my hair in less that two minutes, my coat was completely engulfed, and that was the only way I could see where I was running at that point, because I had a glow from my coat."

- EMT Patricia Ondrovic, WTC Task Force Interview, Oct. 11, 2001.



Nearby Ground Zero, Sept. 28. The dust has seen some rain. source: "Infraspection Institute" wtcdata.nist.gov

# **SCIENTIFIC STUDIES**

Take a good look at several major scientific studies of WTC dust (in no particular order). Take my commentary or leave it. Facts are here.

1. Lioy, P.J., et. al., Environmental Health Perspectives Volume 110, Number 7, July 2002

"Characterization of the Dust/Smoke Aerosol that Settled East of the World Trade Center (WTC) in Lower Manhattan after the Collapse of the WTC 11 September 2001," pp. 703-714.

Paul Lioy is author of <u>DUST: The inside Story of its Role in the September 11th</u>
<u>Aftermath</u> (Rowman & Littlefield Publishers, 2010), a book quoted above, for example, on the subject of glass. Lioy was thorough in his many analyses of the dust samples he took.

"It was anticipated that the actual compounds and materials present in the plume would be similar to those found in building fires or implosion of collapsed buildings. The primary differences would be the simultaneous occurrence of each type of event, the intense fire (> 1,000°C), the extremely large mass of material (> 10 ×10<sup>6</sup> [1 million] tons) reduced to dust and smoke, and the **previously unseen degree of pulverization of the building materials**." [emphasis added] - Lioy, et. al., Intro.

Everything was in the dust. For evidence of demolition by incendiaries, you may notice the repeated fact that Lioy and team "found charred wood particles in all three samples" (p. 710) along with a long list of "products of incomplete combustion," including materials "common as padding in office furniture" and "in thermoplastics (e.g., computers)." (p. 712). Then of course there was the ash and soot... complete combustion.

Was the creation of those widespread remnants of fire – all those ashes – really due to area fires only? Keeping in mind the many observations and questions implying too much destruction to believe (see <u>video</u> collection and <u>Appendix 1</u> transcript), was it possible this incineration took place on a scale greater than that which could have been produced by observed fires? (Fires listed below #2.)

Soot — 0.2 μm

MVA4808 L1617 0.2 μm

Figure 6. A soot particle containing coagulated ultra-fine particles detected in the Cherry Street sample.

Lioy, et. al., p. 708.

Where were the dust samples taken?

"These two samples were collected from 10–15 cm-thick deposits that were on the top of two automobiles about 0.7 km from the WTC site. The automobiles were in locations protected from rain that occurred on Friday, 15 September 2001. One automobile was located on Cherry Street, and the other was on Market Street, one and two city blocks, respectively, west of the East River between the Manhattan and Brooklyn Bridges. These cars appeared to have been in their respective locations since 11 September, but it is possible that each could have been moved from an adjacent thoroughfare on the east side of NYC (FDR Drive)." (p. 704)

Lioy's dust was in "10-15 cm-thick" piles (3-6 in.) created by the "collapse" clouds, however some ash on top may have been derived from subsequent fires in the area – a negligible amount surely.

2. "Signature Assessment 130 Liberty Street

<u>Property</u>, WTC Dust Signature Report Composition and Morphology" RJ Lee Group, Inc., Dec. 2003.

To determine if dust contaminating the Deutsche Bank property was indeed a product of the "collapses," the dust had to have an identifiable trait, or signature, for legal proof. One of these signature ingredients was the iron sphere – a topic discussed at length in the Molten Steel section a few pages above (which quotes this paper more than once). After reading the RJ Lee Group paper, it is impossible to discount the proof that extreme temperatures were involved in the destruction of the WTC. The Summary on page 19 reads:

"The differences within the WTC Dust and typical background dusts include the fineness and **evidence of heat**, the size and concentration of the chrysotile, and the length and concentration of the mineral wool and other fibers, as well as the frequency of occurrence of **spherical particles produced by fire and heat, char and soot**, and other building products."

Of course there were several acres of offices, storerooms and all else up in those two towers, a total of about **14 acres of building burned** between the two towers. (One floor nearly equaling an acre square, yet shafts and hollow areas should be subtracted for accuracy.) The NIST investigation modeled the fires in WTC 1 as spanning 8 floors (92 - 99, not including observed fires on the  $104^{th}$  floor for example [or  $22^{nd}$  floor for that matter.... See section "Evacuees – 102 Minutes"]; for WTC 2, six floors were included in the simulations/models, 78 - 83. (NIST NCSTAR 1-5F, "Federal Building and Fire Safety Investigation of the World Trade Center Disaster: Computer Simulation of the Fires in the World Trade Center Towers," 2005, p. 47.) **Add the fires of WTC 7** as reported by NIST: "meandering" around floors 7 - 9, 11 - 14, and also parts of 19, 22, 29, and 30 (NIST NCSTAR 1A, "Final Report on the Collapse of World Trade Center Building 7," 2008, p. 19.) Including Building 7 maybe 24 floors burned (partially burned).

Repeating and emphasizing this quote from a few pages above:

"In addition to the spherical iron and aluminosilicate particles ...[edit out text] Combustion-related products are significant WTC Dust Markers, particularly if seen in combination. However, it is worth noting that fly ash and partially combusted products can occur in trace concentrations in ordinary building dusts, but not in the concentrations observed in WTC Dust."

- RJ Lee Group, op cit., p. 19.

3. <u>US Geological Survey</u> collected more than 35 samples [<u>image</u> – or see <u>Summary</u>] and utilized NASA's Airborne Visible /Infrared Imaging Spectrometer (<u>AVIRIS</u>) remote sensing data, also used for <u>thermal readings</u>. The carcinogen chrysotile asbestos was a major focus of interest. However, USGS did study the fascinating and prevalent "iron rich sphere," seen enlarged with more info at <u>Jim Hoffman's site</u>. (Again, see "Molten Steel" section above.)

This study, in a word, was **huge**... but government funded (<u>www.usgs.gov/aboutusgs/</u>). Above, in "<u>Molten Steel</u>," find this study quoted with thermal images from AVIRIS.

4. Cahill, T.A., et. al., "Analysis of Aerosols from the World Trade Center Collapse Site, New York, October 2 to October 30, 2001," *Aerosol Science and Technology*, vol. 38, 2004, pp. 165-183. and "Very Fine Aerosols from the World Trade Center Collapse Piles: Anaerobic Incineration?" (2003)

Thomas Cahill (Professor, Dept. of Applied Science at Univ. of California at Davis) used data from smoke and dust collection weeks after the events of 9/11. Look here for details on the caustic burning rubble pile. Yet the smoke carried <u>bits of glass</u> ("slab in lower left") and other "course" particulates. See "<u>Trade Center Debris Pile Was a Chemical Factory, Says New Study</u>" September 10, 2003.

According to Dr. Lioy, who also attended the American Chemical Society Meeting, Sept. 7-12, 2003 in New York, Cahill had shown some interest in "fused iron spheres." (last paragraphs of Molten Steel section above, quoting Lioy, <u>Dust</u>, op cit., p. 154.). Yet for the purposes of their research, Cahill and company focused on the aerosols.

5. John McGee, et. al., "Chemical Analysis of World Trade Center Fine Particulate

<u>Matter</u> for Use in Toxicologic Assessment," *Environmental Health Perspectives* Volume 111, Number 7, June 2003 ... in which we read from the results:

"Elemental carbon levels (an indicator of carbon black produced by incomplete combustion during the fires prior to collapse) were low, indicating that the fine fraction of WTC PM2.5 [fine **particulate matter** 2.5 millionths of a meter or less in diameter] was dominated by the presence of pulverized building materials rather than the products of incomplete combustion."

As it should have been. This could be a voice for the no-incendiaries theory of "collapse." But, of course we are talking about the total mass of two 110-story buildings, one 47-story and everything inside – mixed as dust (not including structural steel which wasn't "dustified"). For that which was pulverized, how much was even combustible per unit mass? What about all the paper that wasn't burned, critics may say. (See above, "Not Recovered" [regarding file cabinets vaporized in the paper's stead].)

For all sizes of PM's chemical composition see first the <u>USGS chemistry table</u> showing organic carbon comprising between 0.98 and 4.02% of the samples where the element was measured, for an average 2.48%. Is that level really so low? Out of about 267 floors (110+110+47) included in the dust, roughly 9% of them burned (see #2 above), sending ashes into the sky, leaving an unknown amount of "incomplete combustion." We are talking about area of space, not mass of solid materials, but this does help gain a perspective. The way I see it, elemental carbon levels may have been conspicuously higher, were it not for the "previously unseen degree of pulverization of the building materials." (Lioy, et. al., op cit.)

- 6. Agency for Toxic Substances and Disease Registry (ATSDR)/ New York City Department of Health and Mental Hygiene (NYCDOHMH) Study, "Final Report of the Public Health Investigation to Assess Potential Exposures to Airborne and Settled Surface Dust in Residential Areas of Lower Manhattan" (ATSDR/NYCDOHMH, 2002). This study was part of the "Limited investigation of residential indoor environments ... conducted in the weeks and months after the WTC collapsed." (quoting the December 2005 EPA paper "World Trade Center Residential Dust Cleanup Program" Final Report.) Another related study in the immediate aftermath: "Characterization of Particulate Found In Apartments After Destruction of the World Trade Center" (Ground Zero Taskforce [Chatfield & Kominsky], 2001)
- 7. Maoxin Wu, et. al., "Case Report: Lung Disease in World Trade Center Responders Exposed to Dust and Smoke: <u>Carbon Nanotubes Found in the Lungs of World Trade Center Patients and Dust Samples</u>," *Environmental Health Perspectives*, Volume 118, Number 4, April 2010, from which we read:

"Tissue mineralogic analyses showed variable amounts of sheets of aluminum and magnesium silicates, chrysotile asbestos, calcium phosphate, and calcium sulfate. Small shards of glass containing mostly silica and magnesium were also found. Carbon nanotubes (CNT) of various sizes and lengths were noted. CNT were also identified in four of seven WTC dust samples. [. . .] The finding of CNT in both WTC dust and lung tissues is unexpected and requires further study."

After their studying they concluded simply, "[h]owever, the high temperatures generated during the WTC disaster as a result of the combustion of fuel in the presence of carbon and metals would have been sufficient to locally generate large numbers of CNT." (*EHP*, p. 503... emphasis added.) Must have been.

Aside: Funny, I just found borderline plagiarism in an article that paraphrased that conclusion almost word for word, and inserted the word "jet" before "fuel." See "Exposures at

the World Trade Center: Ten Years Later, What Have We Learned?" Jack Springston, *The Synergist*, Sept. 2011, p. 25. "The authors noted that the high temperatures generated as a result of the combustion of jet fuel, in the presence of carbon and metals, would have been sufficient to locally generate large numbers of CNT." (emphasis added) Again the magic jet fuel, able to leap to the 22<sup>nd</sup> floor.... essentially kerosene (<a href="http://en.wikipedia.org/wiki/Jet\_fuel">http://en.wikipedia.org/wiki/Jet\_fuel</a>). See above section "Evacuees: 102 Minutes."

It just so happens that "<u>nanothermite produces the same kinds of carbon nanotubes</u>. That finding has been confirmed by independent analysis in a commercial contract laboratory." (Kevin Ryan, "<u>How to Debunk WTC Thermite</u>," 911blogger.com, Dec. 8, 2013.) Which brings us to

What kind of fuel, then?

8. <u>Niels Harrit, et. al.</u>, "Active Thermitic Material Discovered in Dust from the 9/11 World Trade Center Catastrophe," *Open Chemical Physics Journal*, 2009, Vol. 2, p.7. (Authors: <u>Niels H. Harrit</u>, Jeffrey Farrer, Steven E. Jones, <u>Kevin R. Ryan</u>, <u>Frank M. Legge</u>, Daniel Farnsworth, Gregg Roberts, <u>James R. Gourley</u>, and Bradley R. Larsen)

"If further studies of the debris confirm the findings of extremely high temperature, Dr. Barnett said, 'the smoking gun would be the fuel.'" - James Glanz, "Engineers Suspect Diesel Fuel in Collapse of 7 World Trade Center," New York Times, Nov. 29, 2001.

This smoking gun was published and announced in 2009 as having been found among the omnipresent dust from the events. It is remaining active thermitic (explosive) material, aluminothermics... nanothermite. Read the paper, "Active Thermitic Material Discovered in Dust from the 9/11 World Trade Center Catastrophe" here. Try <a href="http://femr2.ucoz.com/load/1-1-0-3">http://femr2.ucoz.com/load/1-1-0-3</a> also <a href="https://femr2.ucoz.com/load/1-1-0-3">911research.wtc7.net</a>. Danish television (TV2News) featured the story April 6, 2009, by hosting one of the authors, Niels Harrit, in a <a href="program available to watch with English subtitles">program available to watch with English subtitles</a>. This and more can be found at <a href="mailto:ae911truth.org">ae911truth.org</a> or in their video "9/11: Explosive Evidence — Experts Speak Out."

Around the same time, 9/11 researcher Kevin R. Ryan helped write (with James R. Gourley and Steven E. Jones) "Environmental anomalies at the World Trade Center: evidence for energetic materials," <u>The Environmentalist</u>, March 2009, Vol. 29, Issue 1, pp. 56-63.

In response – although not in any official capacity – Gene Corley of FEMA investigation fame announced his intentions to investigate, asking for samples of the WTC dust used in the study. (Kevin R. Ryan, "Dusting-off Corley: Is this the official response to the discovery of energetic materials in the WTC dust?," <a href="911blogger.com">911blogger.com</a>, 05/31/2010) Since Ryan and Jones would not share their dust samples and since Corley wouldn't use "official" dust for some reason, this came to no conclusion.

Read the article on 911blogger to hear of ensuing attacks on the journal who published the Harrit, et. al. paper (people trying to publish fake papers to discredit the journal and thus the paper in question). As if by coincidence, at that time there was tampering with its authors' mail on two occasions.

"When my colleague Steven Jones sent a sample of the red-gray chips to my post office box in late April 2009, the samples had been removed from the double envelope package through a series of slits just barely big enough to slide the small vial out. The postal inspector never responded to my complaint. But when I later mailed something to my colleague James Gourley, the envelope arrived with a corner ripped out, in a gross kind of damage that neither of us had ever seen." - Kevin R. Ryan, <u>Ibid.</u>

Finally after 3 years a scientific response challenged the Harrit, et. al. paper. Dr. James Millette of MVA Scientific Consultants, who was <u>commissioned</u> by official story advocate Chris Mohr, conducted some experiments with his own "<u>independent</u>" professional laboratory and <u>released his results on the WTC dust</u> in February 2012. "The red/gray chips found in the WTC dust at four sites in New York City are consistent with a carbon steel coated with an epoxy resin that contains primarily iron oxide and kaolin clay pigments." "There is no evidence of individual elemental aluminum particles of any size in the red/gray chips, therefore the red layer of the red/gray chips is not thermite or nanothermite."

The debate rages on. <u>Technical language</u> prevents the average citizen from 100% comprehension, if only by losing the readers' attention. Yet, there are points of contention worth understanding before hailing this as a smoking gun.

"Millette found no elemental Al after an MEK soak, and no evidence of thermite. Harrit et al not only found elemental Al after an MEK soak, but also iron-rich spheres in the residue after chips were subjected to heating in a DSC - evidence that a thermite reaction had occurred. The conflicting results may be due to the fact that Millette's chips were 'washed in clean water' prior to analysis, whereas Harrit's 'samples were left unwashed and uncoated unless otherwise specified.' Elemental aluminum and oxidizer(s) from the accelerant weren't in the chips; they were on the outer surface of the red layer, which corresponds to the left-hand side of Harrit's Figures (12) (b) and (15) (c). Information contained within this page not only proves beyond all doubt that OBL and KSM did not orchestrate 9/11, but identifies the principal perpetrators."

- "Millette study fails to refute crucial findings by Harrit et al," takeourworldback.com

A terse response from Kevin Ryan (one of the et. al. with Niels Harrit) basically laughs in Millette's face. "As he worked to debunk the WTC thermite research, Millette was still unable to find any iron microspheres. But he did claim to have finally found the red-gray chips. Curiously, he did not attempt to replicate the testing that would determine if those chips were thermitic." (Kevin Ryan, "How to Debunk WTC Thermite," 911blogger.com, Dec. 8, 2013.)

One good article for approaching the subject comes from Ziggi Zugam, "Mohr Non-Sense: Chris Mohr Debunks Millette Kaolin Result," <u>911debunkers.blogspot.com</u>, 7/27/2014. A long <u>collection of links</u> on the subject can be found on that same blogspot.

Chemical Engineer Mark Basile tends toward agreeing with Niels Harrit, <u>Steven Jones</u>, et. al., as you can see in an <u>interview by ae911truth.org</u>. I personally found it fascinating watching <u>his experiment with the red/gray chips</u>, applying electricity/heat and making it <u>flare</u> up and create molten steel.

Basile's work has been criticized as providing evidence *against* thermite in the dust. Read from <u>Oystein's blogspot</u>, linked on <u>Basile's website</u>, "How Mark Basile confirms that redgray chips are not thermitic," 3/18/2012. Meanwhile, Basile is organizing an independent study of the dust using laboratories that do not know what exactly they are analyzing, since our other two studies (Harrit and Millette) have only provided positive reinforcement for their researchers' own ideas about the 9/11 WTC "collapses."

- 9. UPDATE 2017: F. R. Greening and T. N. Greening, "<u>Characterization of a World Trade Center Dust Sample</u>," 2017. Found at <a href="http://www.scientificmethod911.org/new\_listings.html">http://www.scientificmethod911.org/new\_listings.html</a> A 44-page PDF drawing on numerous studies, some not listed here, while examining a dust sample collected on 9/11.
- 10. Cate Jenkins, Ph.D., EPA whistleblower, whose work is discussed in this next section.

#### SAFE TO BREATHE

"The staggering tally of those suffering cancers certified by the feds as 9/11-related includes FDNY members (1,100), cops and other Ground Zero responders (2,134), and survivors such as downtown workers and residents (467). Many have more than one type of cancer." [3,701 total] - Susan Edelman, "Number of Ground Zero responders with 9/11-linked cancers hits 3,700," *New York Post*, Aug. 9, 2015.

Health issues are paramount, of course. 9/11 has taken more lives since then, at least once officially, on a (revised) death certificate. (Anthony DePalma, "For the First Time, New York Links a Death to 9/11 Dust," New York Times, May 24, 2007. See above, "Bodies.") Sadly NYPD James Zadroga's death certificate listed misuse of prescription medication as the cause of death. (nytimes.com "James Zadroga"). Of course his death was the direct result of 9/11. In 2011, "the health care programs of the James Zadroga 9/11 Health and Compensation Act [link added by this author] formally took effect, six months after it was passed by Congress [Sept. 2010] and signed into law by President Obama, providing \$4.3 billion in long-term federal financing for both treatment and financial compensation for those suffering lingering effects of the attacks." (Anemona Hartocollis, "9/11 Health Care Law Takes Effect," nytimes.com, July 1, 2011.)

This being many years after the 2004 "final" payout of the <u>September 11<sup>th</sup> Victims</u> <u>Compensation Fund</u>, which some say sought to pay off the hostile grieving families and settle any future possible litigation. "The government offered their survivors the same deal: collect a check for all the money your loved one might have made if they had lived, absolutely tax-free. And give up your right to bring a lawsuit." (Ilya Marritz, "<u>How They Spent It</u>: Recipients Reflect on 9/11 Victim Compensation Fund," wnyc.org, September 6, 2011) "Over 7,300 claims for death and physical injury arising out of the 9/11 tragedy will have been processed." Of which "over 4,400 physical injury applications were processed by the Fund." (Closing Statement from the Special Master, Mr. Kenneth R. Feinberg, on the Shutdown of the September 11th Victim Compensation Fund)

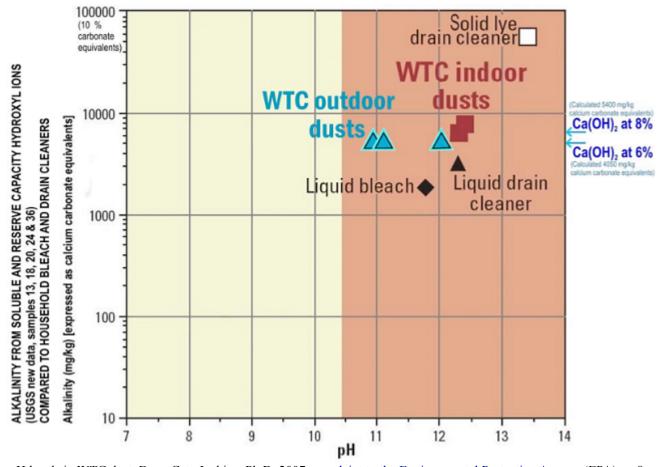
The <u>Zadroga Act reopened the victim compensation fund</u>.

See the documentary film <u>Dust to Dust -- The Health Effects of 9/11</u> and read "<u>Cancer Incidence in World Trade Center Rescue and Recovery Workers, 2001-2008</u>." Listen to/watch <u>Jenna Orkin testify</u> Sept. 9, 2004 at the 9/11 Omission Hearings (Cynthia McKinney, Mindy Kleinberg, Michael Ruppert, many more – and a crowd). Also visit government sponsored links at the <u>Center for Disease Control (CDC) WTC page</u>, or at <u>nyc.gov</u>. If you were affected you should be listed on the <u>WTC Health Registry</u> (PDF – 2013 report).

"About the Registry

The World Trade Center Health Registry is the largest post-disaster public health registry in United States history, tracking the health of more than 71,000 people directly exposed to the WTC disaster. The Registry was established by the New York City Department of Health and Mental Hygiene and the federal Agency for Toxic Substances and Disease Registry. The National Institute for Occupational Safety and Health has funded the Registry since May 2009." - WTC Health Registry 2013 report

The first responders, ironworkers, sanitation workers, volunteers and firefighters who worked there are dying. Especially those who succumbed to the initial cloud(s) and took desperate unfiltered breaths.



pH levels in WTC dust. From Cate Jenkins, Ph.D. 2007 complaint to the Environmental Protection Agency (EPA), p. 8.

We know the pH level, or alkalinity of the original cloud, before rainfall and firefighting, "was equivalent to that of drain cleaner" (Jenna Orkin "Air Toxicity and Coverup" 9/11 Omission Hearings, Sept. 9, 2004) The USGS team found alkalinity levels as high as 12.1 (like drain cleaner), when most samples they collected were "between 9.5 and 10.5," which is like ammonia. (Gonzalez, Fallout, op cit., p. 88) However, some of those readings were reported fraudulently, according to EPA whistleblower Cate Jenkins, Ph.D. in her letter to senators involved (Hillary Clinton being the Chair on the Subcommittee on Superfund and Environmental Health) requesting an official investigation. Read Jenkins's "Complaint and Additional Evidence of pH Fraud By: USGS, OSHA, ATSDR, NYC, EPA, and EPA-funded scientists," charging "1. Falsification of corrosive pH data for WTC dust; 2. Historical fraud by EPA of hazardous pH levels since 1980." (5/6/2007) This was in addition to allegations she made in 2006 to the EPA Inspector General (among others), also of pH level cover-up. (10/25/2006)

After that cloud settled and dissipated somewhat, and after the city sanitation workers and thousands of volunteers bulldozed and swept up the mess enough to pass it off as liveable, people (civilians) were urged to continue with their daily lives and get back to work. Meanwhile life for many was on the pile, within the mess. Thanks pumpitout.com for compiling relevant news items in the thread "9/11 First Responders – The Dust at Ground Zero." Which

brings us to the EPA's work.

"I am glad to reassure the people of New York . . . that their air is safe to breathe and their water is safe to drink." -Christie Todd Whitman, EPA Administrator, Sept. 18, 2001.

Fortunately New Yorkers weren't dumb enough to believe that, at least according to a poll by New York 1, the city's all-news cable station, and the *New York Daily News* March 2002: "70 percent of New Yorkers did not believe the EPA's assurances that the air around Ground Zero was safe." (Juan González, Fallout: The Environmental Consequences of the World Trade Center Collapse, The New Press, New York, 2002, p. 134.) They still had to breathe the freakin' air! Despite what the people believed, when tested – herded into the poisonous field, so to speak – they breathed what they had to breathe for their brothers and their country.

And without an official federal "danger" notice, insurance companies were less likely to pay a claim. Where entire ventilation systems and carpets should have been completely replaced, a wet rag was used... and a vacuum cleaner. Either way, people moved back into their homes in the days and weeks after 9/11. And of course, "The desire to reopen Wall Street played a role in the EPA's air quality statements." (Jenna Orkin testimony, 2004, op cit.) The stock market couldn't stop for more than a week, surely. The 17<sup>th</sup> was pushing it. Sometime before October 4 (when this map was made), HEPA vacuum trucks were employed in the streets and parking lots around lower Manhattan. Kudos there.

The EPA's investigation of the WTC dust was doomed to failure – to the pleasure of insurance companies and Wall Street, and politicians – by a restriction on quality equipment:

"On September 12, a regional EPA office volunteered to send 30 to 40 electron microscopes to Ground Zero to test bulk dust samples for the presence of asbestos fibers, according to EPA whistle-blower Cate Jenkins, yet the local EPA office declined the offer, opting for the less effective polarized light microscopy [PLM] testing method instead. Jenkins had further alleged that regional office personnel were told by the local EPA office: 'We don't want you fucking cowboys here. The best thing they could do is reassign you to Alaska.'"

- Michael Mason, "The 9/11 Cover-Up: Thousands of New Yorkers were endangered by WTC debrisand government malfeasance," Discover Magazine, Oct. 2007, published online Sept. 7, 2007.

Cate Jenkins included that last quote in her July 2004 paper/book *Comments on the EPA Office of Inspector General's 1/27/03 interim report titled: "EPA's Response to the World Trade Center Towers Collapse" A DOCUMENTARY BASIS FOR LITIGATION (p. 223).*Ongoing EPA work at the Libby, Montana Superfund asbestos cleanup project was using electron microscopes (TEM method) to analyze dust samples. A few days after 9/11, **in the WTC EPA HQ** at 290 Broadway, **EPA used TEM**. Yet for the reports that would determine whether or not the 1% asbestos benchmark was detected on *Wall Street* and in *businesses*, etc., EPA recommended the less effective PLM method. (Jenkins, Ibid.)



The street in front of the New York Stock Exchange gets vacuumed, between Sept. 15-16, 2001. Source: NIST FOIA 911datasets.org release 21, 42A0073 - G20 D1of6, EPA Photos

"Many indoor tests being done by federal or local health officials or by private cleanup companies used a testing procedure called phase contrast microscopy, which detects only larger asbestos fibers of at least 5 microns in size. But when [...they...] used a more exact – and more expensive – method of analysis, electron microscopy, the same samples they had tested with the cheaper method showed far greater amounts of asbestos." (Gonzalez, Fallout, op cit., p. 110.) One example compared the study of 11 dust samples using both methods. The cheaper one found 2 out of 11 exceeded the EPA's standard. The more expensive found 7 out of 11. (Ibid., p. 111.) Doing that particular testing was an independent Virginia-based firm

H. P. Environmental. According to them, "an unusually high percentage of dust resulting from the trade center disaster was composed of these smaller microscopic fibers, most likely because of the high level of pulverization caused by the enormous pressures produced in the collapse of the Twin Towers." [emphasis added] (Ibid.) Note that the Lioy study found "[m]aterial  $< 2.5 \mu m$  in aerodynamic diameter was 0.88-1.98% of the total mass." (p. 703)

H. P. Environmental met in a conference with several top contractors and city officials in early October. (EPA deferred most authority in the matter to the city. [Jenna Orkin, "Air Toxicity and Coverup" 9/11 Omission Hearings, Sept. 9, 2004]) Their findings were given little attention. But when they posted their results on the website of the American Industrial Hygiene Association to make the information public, within five hours "their report had been removed from the site without any explanation. The next day [the scientists] were told that their services were no longer needed at Ground Zero." (Ibid., p. 112.)

September 18 City Councilwoman Kathryn Freed asked the Giuliani administration if her independent group called the Ground Zero Task Force, "a dozen politicians representing lower Manhattan," (Ibid., p. 109) could do some environmental testing in local buildings. The request was denied, so "Freed resorted to sneaking a team of environmental scientists past police barricades...." (Ibid.) Their results found four to six times the EPA asbestos max.

For the heroes who got their hands dirty (along with everything else inside and out) — FDNY, first responders, police, search and rescue, ironworkers... all the workers on the site — as recovery operations held desperately onto hope of a rescue, dust and smoke were the number one problem. That is, when asking volunteers on the sidelines



Ideal respirator cartridges routed to WTC by civilian volunteers "<u>The Heart of Steel</u>" (2008) There were other acceptable types.

managing the early effort to distribute materials from overwhelming numbers of donations rolling into the Jacob Javits Convention Center miles north of the disaster area. See the film "The Heart of Steel" (2008) after the introductions. Hear about the independent mission of tracking down \$50,000 worth of ideal quality respirators (at cost) before the emergency management system could. In the most extreme early hours, a ridiculous paper dust mask was being worn by many.

Mrs. Lowey: "I have several questions, but, Chief, I just want to respond to something that you just said. No one was aware that they needed a mask. Now, there has been a lot of discussion about this, from the mayor, from the former head of the EPA, if you could elaborate on that, you said about a week later?

Deputy Chief Visconti: Yes.

Mrs. Lowey: The masks were delivered.

Deputy Chief Visconti: Yes to the best of my recollection. The first few days on the pile, seeing somebody with a filter mask on was not uncommon, but it wasn't widespread. I saw several people, firefighters, police officers and construction workers with the little filter masks on. Where they got them, how they got them, what made them think about getting them, I don't know.

But then it was later on, after that first week, that the HEPA masks were brought in. Now, initially, it was just handed it out, and then it was realized that they must be fitted. You had to have a fit test. Otherwise, you would do more damage by using the mask than not using it. So then they got into the program of you had to have one of those masks, you had to be fitted for it and you had to use it.

Mrs. Lowey: After the first week.

Deputy Chief Visconti: I am guessing, I am going to say the first 4 days, I don't think anybody had the capability of realizing or capability of gathering enough respiratory protection to bring it into the site."

- Nita M. Lowey, New York, U.S. House of Representatives, Committee on Homeland Security, Sept. 20, 2007

It was too little, too late.

On 9/11 Emmanuel Gomez "and his entire [NYPD] academy class of 800 were deployed to the [WTC] to secure the site and help with rescue and cleanup efforts." He would (six months later) testify before EPA hazardous waste ombudsman Robert Martin "that they had worked for weeks at Ground Zero without being provided with anything more than paper masks...." (Gonzalez, Fallout, p. 84.) When asked during the hearing if "[f]or that 25 days straight, starting from Sept. 11, did anyone try to provide you a respirator?" Gomez replied, "No, sir." It was 3 days before even a paper mask was issued. (Ibid., p. 85)



The 2011 Lancet Study confirmed widespread effects. "[A]sthma is the most commonly reported respiratory disorder in WTC-exposed people, and a dose-response relation between WTC-related exposures and asthma has consistently been identified in both rescue and recovery participants and non-rescue and non-recovery participants in several WTC-survivor study cohorts." ("Mortality among survivors of the Sept 11, 2001, World Trade Center disaster: results from the World Trade Center Health Registry cohort," New York City Department of Health and Mental Hygiene, Long Island City, NY, USA [H T Jordan MD, R M Brackbill PhD, J E Cone MD, I Debchoudhury MPH, M R Farfel ScD, C M Greene MD, J L Hadler MD, J Kennedy MPH, J Li MS, S D Stellman PhD], Lancet 2011; 378: 879–87.)

In the study's 71,437 original interviews and numerous follow-ups, "We did not identify excess overall mortality in the WTC Health Registry cohort between 2003 and 2009 relative to New York City rates. Within the cohort, however, high levels of WTC-related exposure were associated with an increased risk of all-cause mortality and heart-disease- related mortality in non-rescue and non-recovery participants." (Ibid., p. 885) In not so many words, people are getting sick and dying; but not in excess. Only so many deaths can be proven to have resulted from the dust.

But at least 3,701 have 9/11-related cancer(s). (Susan Edelman, op cit., *New York Post*, Aug. 9, 2015)

#### **OTHER TOXINS**

See a recent <u>official tally</u> of the toxic agents observed around the WTC disaster site from the Zadroga Act-mandated World Trade Center Health Program, from the Centers for Disease Control and Prevention (CDC) and the National Institute for Occupational Safety and Health (NIOSH) Feb. 2012.

What of the reports of Freon® (chlorodifluoromethane) stored beneath the towers?

"Huge underground tanks held more than 200,000 pounds of Freon stored to cool the seven buildings of the WTC complex. This had been the largest air-conditioning system in the country." (OSHA website, "A Dangerous Worksite") "Nearly 180,000 pounds for the primary system and another 20,000 pounds for the backup system were located in separate tanks at two different levels in the WTC basement. While this chemical has a relatively high threshold limit value and is nonflammable, it emits hydrochloric and hydrofluoric acids when heated. Final status: Both tanks were eventually located and inspected; both were damaged and one was leaking slightly. The same contractor that designed, built, installed and serviced the tanks eventually recovered the Freon®." (Jeffrey W. Vincoli, Norman H. Black and Stewart C. Burkhammer, "SH&E at Ground Zero" op cit. [cached].) However, a conflicting report came from William Langewiesche, who explored below the surface and witnessed firsthand the apparent discovery: "that the Freon had vented, and the beast at the center of the pile was a myth." (Ibid., p. 34.) At least one aerial map, from October 24, indicates significant detection of both Freon and ammonia. (Source: NYC OEM Map FOIA – see article 297 Files from NYC OEM 09/11 Maps Database, also for more information on the subject of Freon and ammonia.) The Freon was a concern at FDNY incident command meetings late September and would stay in the meetings for weeks.

What other hazardous chemical leaks were there? Just north of "the" pile, at the WTC 7 site, "In addition to Con Ed's [100,105 gallons of transformer] oil, there was a maximum loss of 12,000 gallons of diesel from two underground storage tanks registered at 7WTC. To date, EPA and DEC have recovered approximately 20,000 gallons from the other two intact 11,600 gallon underground fuel oil storage tanks at 7WTC." (Memo to Con Edison Company, "Re: 7 World Trade Center (Trade Center Substation) Investigation Plan," New York State Department of Environmental Conservation, Division of Environmental Remediation, Region 2, Spill Prevention and Response, Nov. 19, 2001 [source: independent FOIA].) Under the Twin Towers' ruins, at least one of the fuel tanks was recovered intact. (Jeffrey W. Vincoli, Norman H. Black and Stewart C. Burkhammer, "SH&E at Ground Zero" [cached]). See also the DDC FOIA Sec. 1, p. 18, to read notes from a March 25, 2002 construction personnel meeting that noted a 10,000 gallon tank of oil at slurry wall section W31 [21?] had to be removed/emptied, as did the generator crank cases.

The Con Edison power substation's lost 100,105 gallons of transformer oil contained low levels of a toxic and carcinogenic PCBs... less than 10 parts per million according to a Con Ed spokesman (Gonzalez, p. 77) Gonzalez warns "that Con Edison was fined on several occasions during the 1990s by both the DEC and the courts for falsely reporting hazardous spill information." (p. 78) I wonder about the possibility of an underground leak, like the one next door, and if WTC 7 fires would have burned the oil at all.

The neighboring Verizon building's fuel oil tanks burst when being submerged under water from the broken mains. That amounted to 40,000 gallons of petroleum mixed with 12 million gallons of water that had to be pumped out over a period of 2 months. (Glenn Collins, "A Sturdy Survivor Gets Back to Work; Herculean Effort to Restore A Landmark Battered on 9/11," New York Times, Jan. 6, 2003.) It's uncertain how much if any fueled the fires across the street in the pile. The diesel fuel being burned by hundreds of dump trucks hauling debris constantly for months likely had a more dangerous effect to the environment.

Benzene. "OSHA's maximum permissible exposure limit (PEL) for benzene is 1,000 parts per billion in air for an eight-hour average, 5,000 ppb for short-term exposure. Anything greater than that requires the use of cartridge respirators or gas masks to filter out organic vapors. [...] In fact, throughout all of September and October there were only six times when

benzene readings at the North Tower plume were below OSHA's permissible..." (Gonzalez, <u>Fallout</u>, p. 83.) Jet fuel was mentioned.

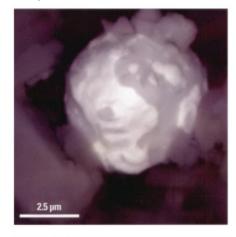
Dioxins, furans. Chlorinated Dibenzo-p-dioxins (CDDs) and Chlorodibenzofurans (CDFs). Burnt plastic and PVC (polyvinyl chloride) cable fumes. Burnt bleached paper products and other chlorinated chemicals. Smoke is technically fine particulate, right? "[E]xposure to even low levels of dioxins and furans can be severe, since they accumulate in body fat and have a half-life of from seven to twenty years." (Ibid., p. 63) Many of the 75 related dioxin compounds and 135 furans are highly toxic and carcinogenic. Some kinds directly attack the body. Think Agent Orange in Vietnam.

When the 9/11 environmental disaster happened, EPA had no safety standards for dioxin and many other toxins in the air there. That gave them power to spin the numbers in the press. Nevertheless, "[a]ccording to EPA records, 43 percent (32 of 73) of all dioxin tests in air the agency took between Sept. 16 and Oct. 18 were above its proclaimed thirty-year benchmark, and 5 percent (4) were above its one-year benchmark. Given that the thirty-year exposure level had been so hastily established at such a questionably low cancer-risk level, and without standard review process, the high number of tests that surpassed that level should have set off alarms." (Gonzalez, p. 67) Testing for dioxins in the air "between October 1 and October 4, from a sixteenth-floor window at the EPA's own headquarters at 290 Broadway, half a mile north of the World Trade Center, 'showed results above EPA's action level based on a 30-year exposure,' according to EPA documents." (Ibid., pp. 68-69)

Mercury. Minute amounts were in fluorescent lamps and thermostats. The problem is that mercury is extremely toxic. It vaporizes and attaches to other particulates... and "there

were 500,000 fluorescent lamps inside the Twin Towers on September 11, according to the Port Authority of New York, and unknown thousands more in other buildings that were damaged or destroyed." (p. 59) EPA's limit in drinking water is 2 parts per billion and 3.1 ppb in the air. (p. 60) EPA's own tests September 14 "of water draining into the river from an overflow pipe near the trade center. ... reported to the agency on September 20, showed extraordinarily high levels of mercury and other heavy metals as well as dioxins, furans, and PCBs in the water samples. For mercury, the tests showed levels of 8.8 parts per billion." (pp. 60-61)

Lead damages the central nervous and reproductive systems, kidneys. Children risk brain damage. Some compounds cause cancer. "[A]nywhere from 200,000 to 400,000 pounds of lead were present in the thousands of personal computers that were instantly destroyed." (p. 55) Also lead paint was found in the Lioy study. "Much of that



 $\label{eq:Figure 3.} \textbf{Figure 3.} \ \textbf{Appearance of lead from the Cortlandt} \\ \textbf{Street sample.}$ 

Lioy, et. al., op cit., p. 708. Levels "ranged from 101 to 625 μg/g."- p.703

lead became pulverized into microscopic dust... When released into the air [it] easily attaches itself to other particulates and can travel long distances before settling to the ground." (Gonzalez, p. 55) Air tests naturally found elevated levels of lead, but "only" in some 17.5 percent of EPA samples. (p. 56) Lead was mentioned above also, in the "Molten Steel" microsphere analysis. High levels were measured at Stuyvesant High School (blocks from GZ and adjacent to Pier 25 debris processing) in the gymnasium and cafeteria (Orkin, op cit.); and after the school reopened less than a month after 9/11, the ventilation system was found to have remained uncleaned! (Julie Shapiro, "Stuyvesant High School Grads Sick 10 Years

after 9/11," dnainfo.com, Sept. 8, 2011) In Summer 2002 the shutdown and cleaning finally happened.

Although not an immediate threat, radioactive Americium 241 was used in the thousands of smoke detectors. Other radioactive matter like Uranium and Tritium were measured in the dust – yet still barely above background levels. (Jim Hoffman, "Nuclear Devices: Theories that Nuclear Weapons Destroyed the Twin Towers," 911research.wtc7.net) Pointing out cancers as evidence of radiation from "mininukes" wasn't logical considering all the other carcinogens there. (See [also] J.M. Moline, et. al., "Multiple Myeloma in World Trade Center Responders," J Occup Environ Med. 2009 Aug;51(8):896-902. Mirror) Radiation poisoning has different symptoms, too. Hair falling out. Infections. The fact that people think "mininukes," thermobarics, or some other extreme devices were employed in the demolitions says something at least, again, about the excessive destruction.



Sept. 16. Source: OEM. See video of the WTC 1 core shot from a crane hoisted basket, courtesy FDNY/NIST FOIA rel.10

### CONCLUSION

All of the contents and floors of the towers falling through themselves did *that*? After all I've read and seen, I don't think so. Call it an argument from incredulity, fully realized.

Maybe one day science will be able to model the "global collapse" that ensued after such a short time of fire in the twin steel structures. It was nowhere near 3 hours of fire on steel.

"A fire chief expects any burning high-rise building to stand for at least three hours before its structural steel begins to stretch dangerously, at which point they will begin to worry about a potential collapse. [...] This is an issue, I suspect, that I will hear more about." - Dennis Smith, Report from Ground Zero: The Story of the Rescue Efforts at the World Trade Center, Viking/Penguin, New York, 2002, p. 210.

What of the recently upgraded fireproofing in much of the affected areas? (NIST NCSTAR 1-6A [see image]) The 16-million dollar NIST investigation wasn't up to the modeling challenge. Reaching for support in their "most likely" theory (Nadine Post, ENR, op cit.), they asserted that critical fireproofing was knocked off in the airplane impacts, one of which NIST/ARA modeled incorrectly by setting the lateral orientation 9 degrees off course. (See "Investigations.") Then for their study they only used 2 core columns from the collapse initiation zones. See a concise list of issues with the NIST report.

"Blown to smithereens" best fits the observations. That is, when you forget the mind-blowing images of planes repeatedly crashing into the towers, along with both "collapses," repeatedly shown (video "9/11 Debris, Part 2" at 7:55) to the horror of families and friends of the 2,750 who were dead (three would die later because of the dust, and be counted as a 9/11 victim). This onslaught of TV news played while people reflexively connected the two aircraft events with the two Twin Towers imploding top-down. This rendered the average observer stunned by fear, and open to suggestions of collapse by "jet fuel" and "bin Laden." Later on: WMDs. Iraq.

The heroes on site spoke frankly about how amazingly pulverized things were. Pulverized. That word again and again. "Vaporized" echoed with it. (Robert Krulwich for ABC, 9/13 at 7:35 p.m., etc.) There was an implied question behind the awe and wonder – the interest even coming from recently promoted [after falling debris killed Chief Ganci] FDNY Chief of Department, Daniel Nigro:

"It was like the surface of another planet... All there was was powdered debris and metal. It was a very strange scene." - "The Conspiracy Files: 9/11," BBC, 2007.

This implied question came up in so many <u>9/11 documentaries</u>, I had to collect and write this e-book. (And make <u>videos</u>.)

Complete demolition of the towers made the debris removal easy. Cheap and fast. No time for investigation. And not much left to investigate. See "Specific Items Recovered." The steel had to be dealt with fast. Maybe not "had" to be, but with the fast pace set by the "external administrators" - presumably the NYC DDC - the steel was processed quickly. Dredging permits were issued in a snap (See "Tonnage"). Cashing in on their dead creation's skeleton gave the Port Authority incentive to speed things up, while looking forward to new developing. But you rarely heard their name in the news media. [Speaking of media – read Barrie Zwicker's Towers of Deception: The Media Cover-up of 9/11, New Society Publishers, 2006 – also a full length documentary in the main 911conspiracy.tv playlist.]

Human remains were the primary motivation for searching in the rubble, also <u>at Fresh Kills</u>. Yet more than 40% of the death certificates had to be issued with no matching remains. This after a monumental effort in collecting DNA from 20,000+ body parts (See "<u>Bodies</u>"). The numerous entities involved did the best they could with what they had. FDNY had to march in protest to fight Mayor Giuliani for access, so they could continue the search for their brothers. It was an uphill battle. Fresh Kills working conditions were questioned, the conveyor belts apparently running too fast. Less than ¼ inch material was tossed. But the debris "consisted primarily" of just that. (<u>Laura Kurgan</u>, "<u>Around Ground Zero</u>," March, 2002.)

"Recovery workers - not administrators - had to face, clean up, try to subvert, or correct the mess created by **DDC's speed of debris removal**. For example, it was construction workers, high atop scaffolding (whose job it was to systematically reach the top of the back of dump trucks to torch-cut rebar and metal above the edge and then cover debris with a tarp) who found a **mummified hand/arm of a woman sticking up and out of the metal debris** as it was on its way to the barge and to the Staten Island dump. It is a known fact that uniformed personnel had to do "a recovery" out of the back of this and other dump trucks.

"This particular incident and many others happened especially in November at the height of the **Mayor's office's push for speed** and the reduction of uniformed recovery workers."

- <a href="http://wtclivinghistory.org/groundzerocorrection1.htm">http://wtclivinghistory.org/groundzerocorrection1.htm</a> (emphasis added)

The area of unprecedented disaster in lower Manhattan was named Ground Zero for a couple reasons: 1. as the epicenter of a calamity, and 2. because it looked like a nuclear winter of sorts, with the ash and dust floating in the air. The term seemed to originate from the reporters on scene (at a safe distance) and <u>bystanders</u>. Watch the <u>TV archive</u> to see it begin to stick. It would be years until it got capitalized, official. (See Wikipedia – <u>Ground Zero</u>)

Workers at the time preferred calling it "the pile," or as it became known rather quickly – "the pit." See a video by Nick Irving and Anthony Lawson, "9/11: The Towers of Dust." The low height of the rubble pile was a subject of interest from day one. (News anchor Peter Jennings and filmmaker Kevin Sutavee, ABC on 9/11 at 4:10 pm., etc.)

The debris that remained once the dust settled had to be explained without professional controlled demolitions using explosives. The likely conclusion/ theory that terrorists may have used bombs in addition to planes was therefore **not** considered a serious avenue of investigation – maybe because of what would have been [and eventually was] found when looking for such explosives. (See "Dust.")

Only after the two towers completely crumbled was it believable that <u>WTC 7</u> could do so, even with no airplane hit or precedent for its complete implosion by fire alone (not counting minimal south side <u>damage</u>, which didn't get any blame in the NIST report, if that means anything). The importance of investigating the collapse was demonstrated by destroying and/or recycling the steel beams, the evidence.

On Sept. 12 the mayor told us that 120 dump trucks had been working through the night, despite the fact that they could not access most of the site due to blocked roads. He also said that barges would be transporting



Mayor Giuliani press conference 9/12 a.m.

debris away throughout the day. But the Dept. of Sanitation could not transport steel with their limited barge capacity before river dredging. [see "Tonnage"].

Giuliani said these things on TV only a couple hours before ABC News anchor Peter Jennings asked his on-site reporter George Stephanopoulos: "When you look at where the towers used to stand there is surprisingly so little rubble. Where did all the rubble go?" The subject had been raised earlier, he said. George thought maybe the "dump trucks and other

very large vehicles carrying out debris" had some bearing.

NBC went on to mention a witness's thoughts using the word "evaporated" to describe the pulverized debris... some of which did literally vaporize in the flash of extreme heat required to melt and join silica/glass and aluminum in spherules found in the dust. See the <u>Journal of 9/11 Studies</u> paper "Extremely high temperatures during the World Trade Center destruction," Steven Jones, et. al. And my article, "<u>Molten Steel and Extreme Temperatures at WTC</u>." The temperatures were simply too hot to be regular office fire, or even magic jet fuel.

The total amount of debris mass is an ethereal figure. The numbers so often updated were fascinating but immaterial because they were reached by computer processing of aerial LIDAR (Light Detection and Ranging) <u>imaging</u>. The numbers were <u>estimations</u> only.

"[A]irborne and ground based **lidar** systems proved to be invaluable to the recovery efforts serving several purposes including mapping and visualization products, **estimating debris volumes**, determining crane reach requirements, determining structural hazards through monitoring, and change detection"

- Mike Aslaksen and Jon Bailey (<u>NOAA/NGS</u>), "NOAA's Role in Mapping the World Trade Center and the Pentagon Disaster Sites," *Photogrammetric Engineering & Remote Sensing*, October 2002, Vol 68, Num 10

Volume measurements applied to such contents of varying mass surely were not exact. Disaster debris experts from FEMA, the USACE, mapping experts with the city, and WTC construction engineers disagreed on initial estimates of total debris mass, but all came up with figures far too low. And the details of exactly what was being included as "the debris" was a matter of some uncertainty. Were WTC 3, 4, 5, and 6 included, parts of which were left standing? To confuse matters there were weight scales used inconsistently, with wet debris – some of which was brought *into* the site for road building and bathtub wall support. Regardless of these unknown factors, we have found that the official tally nearing "2 million tons" was false. The popular 1.8 million number has also been rounded up, I'm sure.

Maps of the basement levels (see App. 2) showing damaged/collapsed areas are not detailed or complete. A round figure might say the basement was half collapsed. The "bathtub" area was so vast that people could imagine the "missing" debris was simply compacted underground. (See 9/11 Debris, Pt. 2 at vrt 9:35) So the presence of voids and undamaged areas below the surface was somewhat of a surprise to journalists. I'm sure the equipment operators who fell into voids were surprised, too. (America Rebuilds, op cit.)

The symbolic Koenig sphere remained in its spot, only slightly damaged by the 110-story towers that once loomed overhead. Most importantly, the concrete retaining wall was intact. Lucky, some said. Besides a small church, only the buildings with a *WTC* heading were destroyed that day – all seven of them.

"There you see the building imploding.... Do you see what's happening? ... This is clearly-- the way the structure is collapsing.... This was the result of something that was planned. It's not accidental that the first tower just happened to collapse and then the second tower just happened to collapse in exactly the same way. How they accomplished this we don't know. But clearly this is what they wanted to accomplish." <a href="CNBC News anchor">CNBC News anchor</a>, 10:30 am

What may be a smoking gun for demolition – nanothermite in the WTC dust – is up for debate among Ph.D.'s. I can only quote the two opposing sides. The one I'm leaning toward at the end of this investigation is obviously that of the "conspiracy theorists."

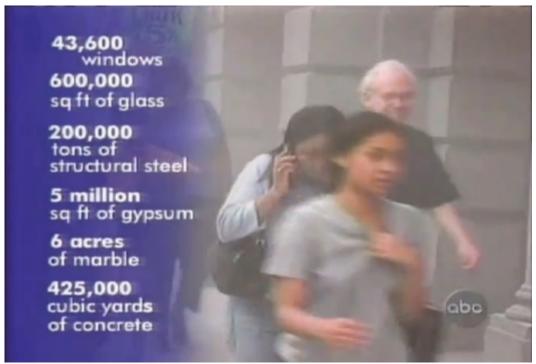
# **Appendix 1**

**Timed Text Closed Captions for "9/11 Debris: An Investigation of Ground Zero, Part 1."** Notes have been added in brackets. Sources have been named in parentheses after the paragraph's closing tag

- The debris is just unbelievable. (Witness at Ground Zero on ABC News, 9/11 at 8:28 p.m.)
- That's the part that's crazy is just that's all that's left. [The UTF-8 xml text file format requires the apostrophe to be written as such: ' Leaving that code in will be noticed starting now.] 
  (Kevin Sutavee, independent camera operator on ABC News, 9/11, 4:10 p.m.)
- You don't find a desk. You don't find a chair. (Joe Casaliggi, FDNY Engine 7 in "9/11: The Filmmakers' Commemorative Edition" Paramount, 2002)
- You don't find a telephone, a computer.
  (Joe Casaliggi, Ibid.)
- ...that's all that's left... (Kevin Sutavee, Ibid.)
- ...towers collapsed almost cleanly on themselves.
  Where did they go? (Philippe Petit in "New York: The Center of the World" PBS, 2003)
- Everything was dust and metal. (Lt. Kenneth Christiansen, FDNY Ladder 5 in "Relics from the Rubble" History, 2002)
- The building collapsed to dust. (Joe Casaliggi, Ibid.)
- Early estimates were that it would take
- up to 2 years to clean up Ground Zero.
- But in fact the process went much more quickly, and was significantly under budget.
  (PBS "Newshour" May 30, 2002)
- Architects, engineers, people who work with steel,
  welders,
- have just never seen the level of destruction and the level of deformation of this material in our lives. (Architect Bart Voorsanger in "Relics from the Rubble")
- I found it hard to believe that it actually bent because
  of the size of it
- and how there's no cracks in the iron. It's bent without almost a single crack in it. (Ironworker in "Relics from the Rubble")
- Just everything is smashed to atoms. There are no big pieces of anything.
  (Tim Cothren, camera operator on ABC News 9/12 at 11:53 p.m.)
  There were no desks. There were no phones. Maybe
- There were no desks. There were no phones. Maybe
  now and then you would find a fragment of something,
- but basically everything was just pulverized. (Ironworker Larry Keating in "Metal of Honor: The Ironworkers of 9/11" by Rachel Maguire, Spike TV, 2006)
- There wasn't a a computer screen, a laptop.

- There was no office...
- I mean, it was, you know, two 110-story buildings -of office equipment.
- You know, it's just -- beyond
  comprehension. (Tom McHale, PAPD/Ironworker in "Metal of Honor: The Ironworkers of
  9/11")
- It was like the surface of another planet.
- All there was, was ah powdered debris and metal.
- It was a a very strange scene. (Dan Nigro, FDNY Chief of Dept. 2001-2002, in "The Conspiracy Files: 9/11," BBC 2007)
- Just the debris field is amazing. It's beyond -
- anything I've ever seen like that. I've
  seen collapses
- and d demolitioned buildings.
- But nothing like this, this was unbeliev... like I said,
  there was't a door, there wasn't anything to be found.
- It was all disintegrated all rubble. Concrete was small, little pieces, not even slabs.
- No desks, no furniture, no computers, no phones, no anything. So I imagine -
- I imagine the people were the same as the building. Nothing left. (Tom Spinard, FDNY Engine 7 in "9/11: The Filmmakers' Commemorative Edition")
- Where did all that building material disappear to?
  (Irving and Lawson, "9/11: The Towers of Dust" 2008)
- It just disappeared into it's own dust.
  (unknown)
- You were walking in dust maybe up to your ankles.
  (Ironworker Paul Gaulden in "Metal of Honor")
- All the furnishings and the fixtures inside the building -
- None of that existed after the collapse. There were no desks. There were no phones, no computers, no copy machines.
- No chairs, nothing. It had all been pulverized by the tremendous amount of energy that was created by this collapse.
- It was just pulverized into this dust. (Captain Jay Jonas, FDNY Ladder 6 in "Inside the Twin Towers," Discovery Channel, 2006)
- ...I started digging those first couple of buckets, I started to look at this dust, this ah powder. All I could think of is that peop- .
- This is people.
- ... have the feeling that there was people in this
  pulverized dust.
- Where is everybody?
- Yeah. I mean you didn't find a shard of
  glass...

- Anything that looked like it would be used by a person
   you just didn't see it.
- It was just concrete, steel, that was it. And dust. -Papers.
- ...you didn't find a shard of glass...
  (FDNY firefighters in "Collateral Damages," Turn of the Century Pictures, 2003)
- Engineers at the firm that built the buildings best guess to account for the missing twelve hundred feet of material
- from each tower is that large portions simply
  vaporized into the dust that rained down on New Yorkers immediately after the collapse.
  It was that powerful.
- We're talking here about ...



ABC News, Sept. 13, 7:36 p.m. "We're talking here about..." -Robert Krulwich

- Turned in good part into a cloud, says environmental medical doctor Stephen Levin.
- I was astonished at the degree to which
- at the degree to which solid materials were turned into pulverized dust as a consequence of that building collapse.
- I think it was striking.
- The Environmental Protection Agency has been sampling the dust
- and one specialist told ABC they believe the clouds that appeared immediately after the collapse
- were mostly gypsum dust from drywall, cement dust, and plaster which can cause problems.
- Cement dust is an irritant. Fine glass powder is also an

- irratating material.
- The EPA did find spotty levels of asbestos. A sample on a police car turned out dangerous. Another sample a couple of blocks away, not dangerous.
- But most interesting: In the mix they are looking, they think, at specks of steel that used to be beams and elevators,
- marble from the lobby floor and facings. So what were once the strongest architectural elements in the two towers
- were pulverized. Large portions turned into clouds, like this one. (Robert Krulwich of ABC News 9/13 at 7:35 p.m.)
- They're both down now. It's just a huge cloud of smoke. (unknown)
- People who have been right down next to the base of what was the trade towers
- say there's virtually nothing left. Maybe a few flights of stairs, a few stories of one of the buildings.
- But that when they came down there was so much melting and so much demolishing of any kind of structure...
  (Bill Blakemore of ABC News 9/11 at 9:52 p.m.)
- It's an interesting question. When you saw those two giant towers collapse almost cleanly on themselves.
- Where did they go?
- I have read in some architecture article that they were made mostly of air,
- if you consider the space between the solid molecules of the steel, the concrete, the glass, the aluminum.
- There was a lot of air. It was mostly air, actually.
- Where did they go was part of the disbelief that I
  was feeling. (Philippe Petit in "New York: The Center of the World")
- Oh, my goodness me.
- That's the ah That's all that's
  standing of the Twin Towers right now, in the background.
- That's all that's standing. That's it. That's all that's left.
- So you were literally right inside um...
- What time did you actually photo- take these-
- I don't Actually, I rode my motorcycle right up
  there. That was about an hour ago, not even.
- And this is right at the center of where the trade towers stood until-
- You can see- When you see the firemen there's
  nothing they can do. It's just like-
- It's absolutely-
- Look at that. That's all that's left.
- Do you know whether that's the South Tower or the North Tower?
- That's the South Tower.

- And you saw no sign of life...
- See that's the concourse below. That's
  going down like twenty feet or so.
- But that's the part that's crazy it that's all that's left. (Camera operator Kevin Sutavee and Anchor Peter Jennings on ABC News, 9/11, 4:10 p.m.)
- On the surface, firefighters and others continued to comb the debris for remains.
- Aside from huge pieces of twisted steel from the towers, there was little that was recognizable in the debris.
- Shrapnel-like fragments. Gray dust.
- No one had ever seen anything like it, even at the site of the Murrah Building in Oklahoma City,
- also destroyed by an act of terrorism. (Narrator in "World Trade Center: Rise and Fall of an American Icon," History, 2002)
- I said, you know, in Oklahoma City
- you could see pieces of desks and chairs.
- There was something that told you this was an office building.
- At the World Trade Center site, it seems like everything was pulverized.(Col. John O'Dowd, U.S. Army Corps of Engineers in "World Trade Center: Rise and Fall of an American Icon")
- One of the more unusual artifacts to emerge from the rubble
- is this rock-like object that has come to be known as the "meteorite." [The UTF-8 xml text file format requires the quotation marks to be written as such: "] (Narrator in "Relics from the Rubble")
- It's this fused element of steel molten steel -
- and concrete, and all of these things all fused by the heat into one single element.
  (Architect Bart Voorsanger in "Relics from the Rubble")
- And almost like a chunk of lava from Kilauea or Iceland, where there are very sharp-
- but breakable shards on the end here. (Man in "Relics from the Rubble")
- By September 12th the Fresh Kills Landfill had been chosen
- as the site where small debris would be sorted.
- Fresh Kills an enormous waste facility on Staten Island sits across the New York harbor from Ground Zero.
- New York City Police Deputy Inspector Jim Luongo
- and FBI agent Richard Marx have been in charge of the operation from the beginning.
- They've also led the effort to save personal
  property and artifacts for museums,
- hoping to keep these memories alive with future

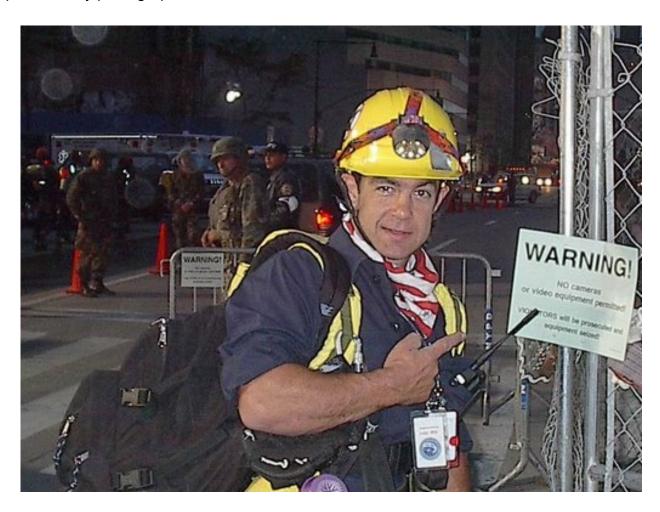
- generations.
- Is there one artifact that stands out, for any particular reason for you? (Narrator/Interviewer Josh Binswanger in "Relics from the Rubble")
- I think the lack of artifacts stands out to me quite a
  bit.
- I think the fact that I haven't seen a door, I haven't seen a phone, I haven't seen a computer.
- I haven't seen a doorknob. I think that stands
  out.
- But for the things that we have seen.... Every now
  and then we'|| come across
- a stuffed animal that might have been on somebody's desk,
- pictures that were on people's desks, that we're trying to restore. (Deputy Inspector James Luongo, NYPD in "Relics from the Rubble")
- Perhaps the most astonishing object Shayt found is something there should have been thousands of.
- This one probably only survived because it was in the basement.
- It belonged to an ice cream store. (Narrator in "Relics from the Rubble")
- |'ve pretty much given up trying to find some
  sort of intact file cabinet.
- But while I was at the compound for the Port Authority
  Police,
- this ball of metal about the size of a basketball was delivered to them.
- You can see what remains of the -
- file folders that were inside. (David Shayt.)
- September 11 Collecting Curator and Museum Specialist, Division of Cultural History, National Museum of American History, Smithsonian Institution in "Relics from the Rubble")
- In the beginning there were people that wanted the name of the landfill changed. (Mark Schaming, Director of Exhibitions at the N.Y. State Museum in "Collateral Damages" also speaking until 14:07)
- They thought it was a morbid thing.
- But 'kill' is Dutch for 'river,'
  and so, the name was kept.
- At first when I saw it I thought they were moving
  mounds of dirt around with loaders.
- And what we were seeing was the ground remains
  of the World Trade Center.
- And it had a very organized sense to it.
- The material came in these buckets all together and put in one place. And then it was sorted.
- We saw nothing we could recognize in the field. We expected to see chairs and file cabinets and what was left of offices.

- Everything was reduced to the finest state. It basically looked like mountains of dirt.
- There were hills of gray dirt, vast expanses of wire,
  twisted rebar, fields of steel,
- and the fields of vehicles.
- The minute they we got there, they wouldn't
  let us take our pictures,
- we planned to figure out a way to get back there and take photographs. (Mark Schaming, Director of Exhibitions at the N.Y. State Museum in "Collateral Damages")
- Ah, well, first of all let's go back to your basic premise that there was a pool of molten steel.
- I know of absolutely nobody -- no eyewitness who has said so. (John Gross, NIST Investigator at http://www.youtube.com/watch? v=3SLIzSCt\_cq )
- You'd get down below and you'd see
  molten steel.
- Molten steel running down the channelw--s.
- Like you're in a foundry -- (Captain Philip Ruvolo, FDNY in "Collateral Damages")
- Yea.
- like lava.
- like it was lava from a volcano. (FDNY firefighters in "Collateral Damages")
- The fires got very intense down there and actually melted beams where it was molten steel that was being dug out. (Richard Riggs, Debris Removal Specialist in "World Trade Center: Rise and Fall of an American Icon")
- </div>
- </body>
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# Appendix 2

# Images mentioned

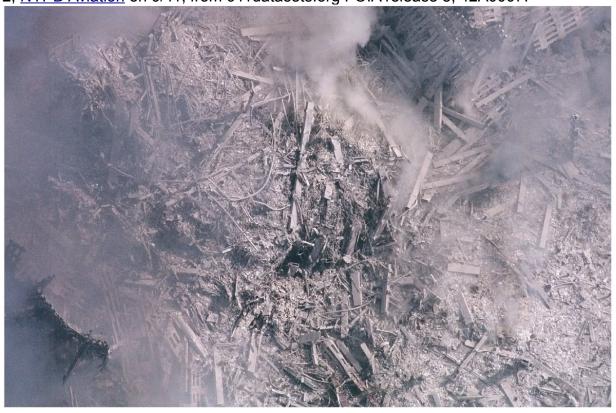
p. 8, shot by photographer <u>Kurt Sonnenfeld</u> of FEMA:



p. 12, <u>Deborah Hardt</u> on 9/11, from 911datasets.org FOIA release 29, 42A0325-G29D11:

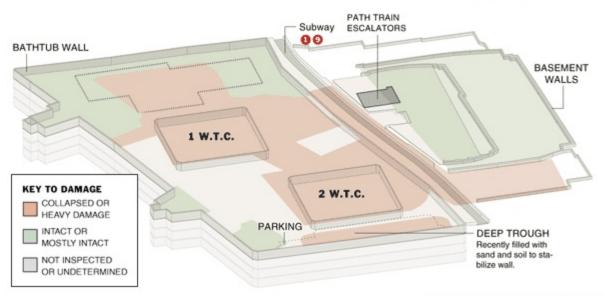


p. 12, NYPD Aviation on 9/11, from 911datasets.org FOIA release 8, 42A0007:



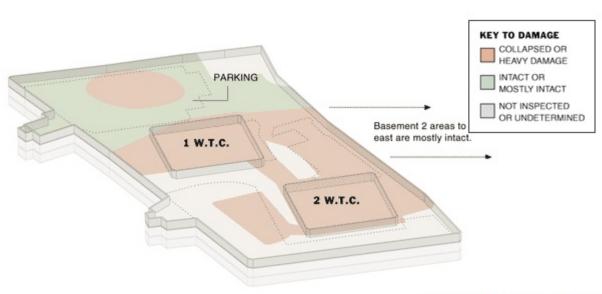
## p. 19, from *The New York Times* website. See a gif version.

#### Basement Level 1



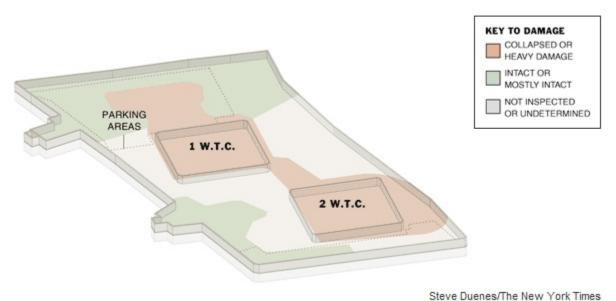
#### Steve Duenes/The New York Times

#### Basement Level 2

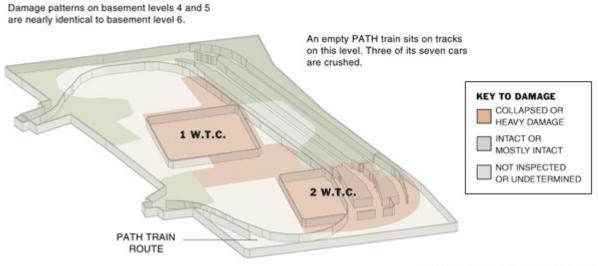


Steve Duenes/The New York Times

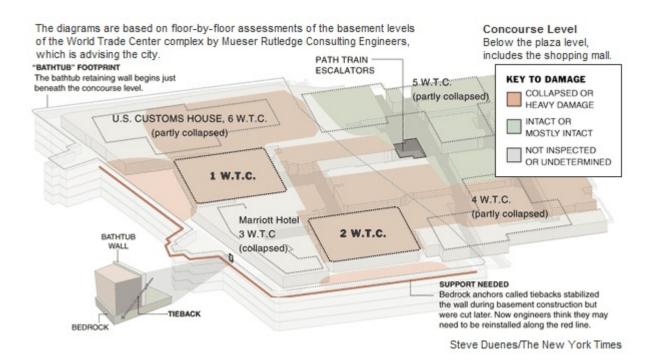
#### Basement Level 3



#### Basement Level 6



Steve Duenes/The New York Times



p. 20, Engineering News-Record Oct. 29 diagram. "Tieback operation" in orange area:



# p. 20, "Looting..." New York Times, Sept. 21, 2001:

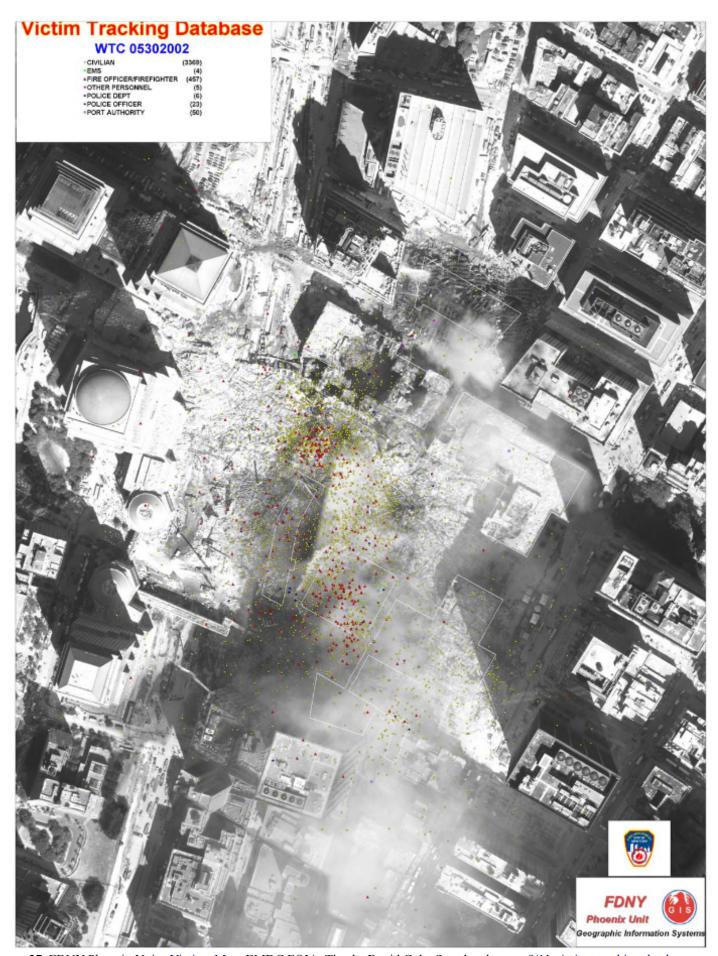


Subterranean passageways somehow survived the collapse of the twin towers. A New York National Guard unit discovered that stores there had been looted,

### UNDERGROUND

p. 21, image caption "See Thomas Nilsson"

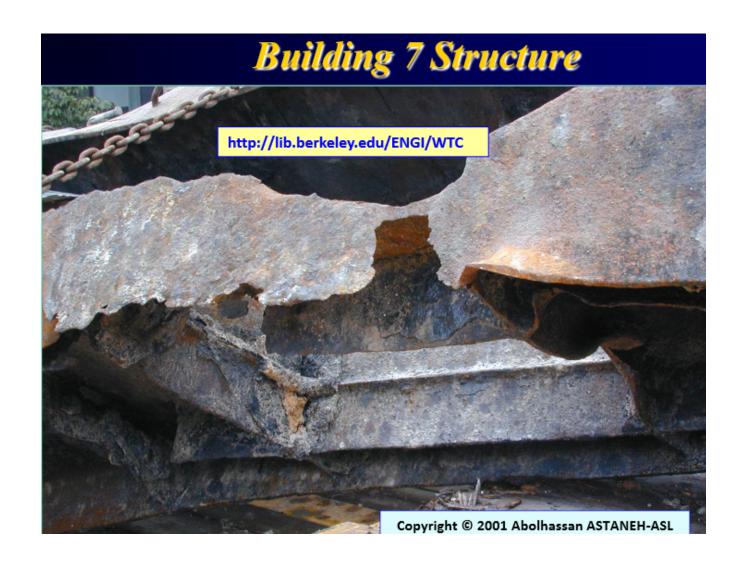




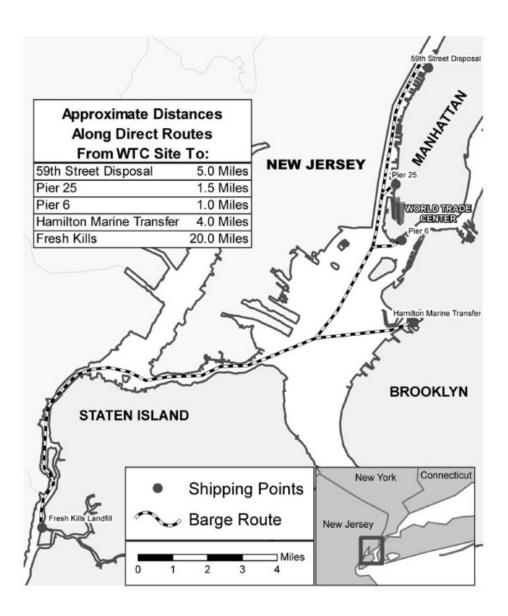
p. 27, FDNY Phoenix Unit - <u>Victims Map</u>, EMDC FOIA. Thanks David Cole. See also the new <u>9/11 victims tracking database</u>. Data acquired from the NIST by FOIA 12-073, Feb. 2012 – <u>GPS coordinates and related info</u> about remains, etc. (no names) – the spreadsheet was changed by this author from mdb to pdf, added word wrap and header, footer. 101 pages, small print.

p. 31, "Add to that a University of California at Berkeley professor who traveled to New York and measured steel beams, <u>Dr. Abolhassan Astaneh-Asl</u>." These photos are from his Powerpoint presentation "WTC Photos Outside Ground Zero Oct. 8, 2001," part of a <u>nice grant</u> he got from the National Science Foundation, a project called "World Trade Center Post-Disaster Reconnaissance and Perishable Structural Engineering Data Collection." Thanks to fellow researcher David Cole, who has procured numerous related FOIA materials. The few shots in the presentation that show eroded beams may have been shot earlier than the title claims. Cole notes, "These photos were taken on 21 SEP, not 8 OCT. Mouse over some of the photos and you'll see the real file name. Taken by David Morris 20-23 SEP 2001." Interesting. From <u>berkeley.edu/news</u> find this quote: Steel flanges had been reduced from an inch thick to paper thin, Astaneh said. He and others suspect that the buildings collapsed because the intense heat of the jet-fuel-fed fire...." Funny, in the Powerpoint, Asteneh says, "Some of the photos have been used incorrectly by some, who promote conspiracy theories, to indicate things that are totally false."





### p. 51, NY Times map caption links here:



http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3111381/

## p. 70, Fresh Kills barges covered in fencing, likely to keep the birds at bay (literally).



Source: 911datasets.org NIST FOIA 09-42 rel. 37, 42A0525 - G38D4. This is cropped from the original version. Image metadata reads: "10-16-01 World Trade Center, NY Debris Removal from Ground Zero to the Staten Island landfill continues as a 24 hours a day operation. Photo by Andrea Booher/FEMA News Photo"

## p. 81, more missing posters:

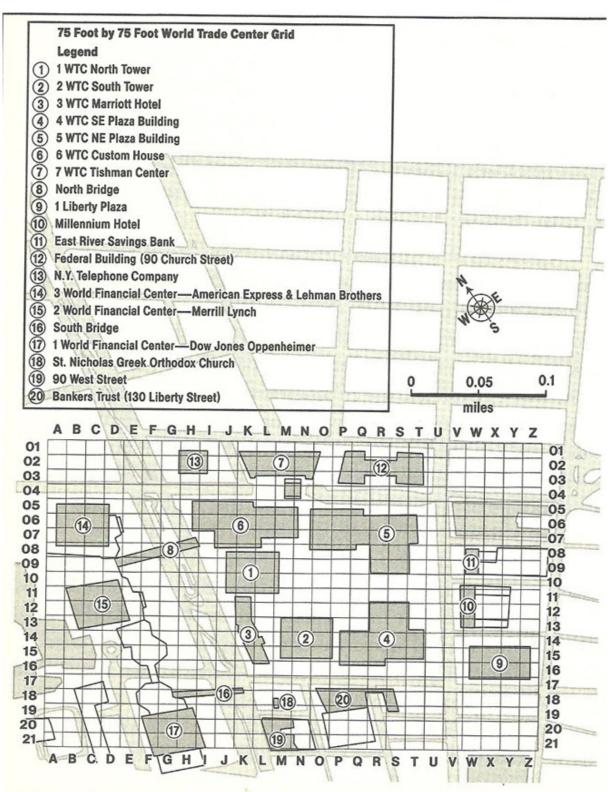


"Commuters leaving Times Square subway station pass posters of people missing after the September 11 attacks." Photo by Peter Morgan, with caption quote from the book <u>September 11: A Testimony</u>, Reuters, 2002, p. 188-89.



"A man leans against a wall showing photographs of missing people outside Bellevue Hospital in New York on September 16." Photo by Russell Boyce, with caption quote from the book <u>September 11: A Testimony</u>, Reuters, 2002, p. 132-33.

For a quick slideshow of similar shots, visit my Photobucket here.



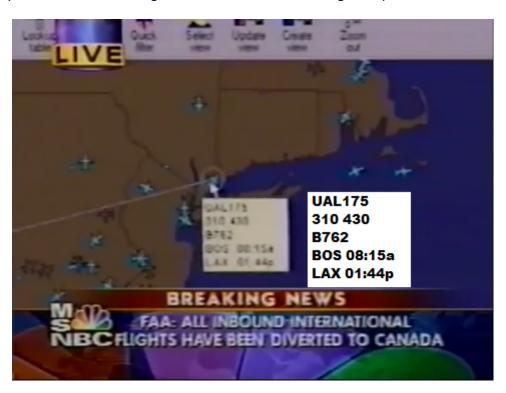
p. 88, "the grid" from Robert C. Shaler, Who They Were - Inside the World Trade Center DNA Story: The Unprecedented Effort to Identify the Missing, Free Press, 2005, p. 278. See different version. See GPS data.

"Airplane Debris" images mentioned:

p. 144, Body bag used by NTSB to collect airplane parts, photo by James McCloskey.



p. 145, "Enter <u>Flight Explorer</u>, a web-based program linked to real-time FAA data, which showed LIVE on TV **UAL175 still in the air** over the New York/Connecticut border after the WTC 2 collapse!" See video, "<u>Flight 175 at 10:25 AM on Flight Explorer</u>"



p. 149: <u>GPS data from FOIA 12-073</u>, which lists one "SHIRT WITH AMMERICAN AIRLINES TAG # W 107551" [sic] from grid L13 [<u>see map</u>, also <u>App. 2</u>] and one "FLIGHT MANUAL - PD CONFISCATED, TAG #W03672" from grid L10. [Aside: Who misspells AMERICAN?] Also found: "CIVILIAN HAIR AND SCALP ATTACHED TO PLANE PARTS ON ROOF OF 130 CEDAR ST.EAST. BODY PART FOUND ON ROOF OF 130 CEDAR ST.TAG #107338."

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OTHER	OTHER	JACKET ,TA	JACKET ,TAG #107149				11/5/2001	11/5/2001 K 10
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HUMAN REMAINS	CIVILIAN	#W107601				107601	11/8/2001	1/0/1900   13

Here's the Excel spreadsheet from FOIA 12-073 before I converted it to PDF (linked above).

p. 150, "Here's <u>one piece in police hands</u> at Ground Zero." Looks to be from the gray United plane:



p. 151, Landing gear part from the New York State Museum:



# p. 172: WABC video of engine:



Source: WABC Dub1, NIST FOIA 09-42: R25, 42A0108 - G25D18

# p. 172 Engine exit. "This construction photo is amazing. (source) Another here (source video):





(<u>Source</u>) Photo by Wolfgang Staehle. Image has been cropped, here seen at full resolution. The camera was on a timer shooting every 4 seconds, for days.

# **Appendix 3**

Excerpt from Kevin Robert Ryan, <u>Another Nineteen: Investigating Legitimate 9/11 Suspects</u>, Microbloom, 2013, pp. 251-259

Many thanks to Kevin Ryan for his work, which focuses more on people and relationships than my more general theme in this short book. The following comes from the middle of his chapter 14, "Rudy Giuliani and the World Trade Center," with endnotes included within text:

### **An Unprecedented Destruction of Evidence**

Regardless of who had foreknowledge or what the imminent danger was, in the weeks and months after 9/11 there were heroic efforts made to rescue survivors. But those efforts were hampered by Giuliani's drive to clean up the site rapidly. The commonly held story was that the government wanted to re-open Wall Street, and for that reason didn't care about the health of New Yorkers and first responders or about facilitating the most careful rescue operations. 53 (Suzanne Mattei, Pollution and Deception at Ground Zero: How the Bush Administration's Reckless Disregard of 9/11 Toxic Hazards Poses Long-Term Threats for New York City and the Nation, Sierra Club Report.) But the facts also align with the hypothesis that authorities were actually in a hurry to remove evidence that pointed to the use of explosives.

The U.S. House Committee on Science reported, in March 2002:

"In the month that lapsed between the terrorist attacks and the deployment of the [FEMA] BPAT team, a significant amount of steel debris – including most of the steel from the upper floors – was removed from the rubble pile, cut into smaller sections, and

either melted at the recycling plant or shipped out of the U.S.. Some of the critical pieces of steel – including the suspension trusses from the top of the towers and the internal support columns – were gone before the first BPAT team member ever reached the site." 54 (Report from the Committee on Science, US House of Representatives, March 6, 2002)

The steel evidence, "a significant amount" of which was quickly removed before investigators arrived, might have shown evidence of explosive damage, like metal "pedaling." But the steel was not the only evidence that was removed. For example, the black boxes that contain the flight data recorders and cockpit data recorders on every airliner were officially never found for either American Airlines Flight 11 or [begin page 252] United Airlines Flight 175. This claim came from the FBI and was supported by the *9/11 Commission Report*, but was contradicted by a number of people who worked at the site. Two Ground Zero workers claimed that they helped authorities find three of the four black boxes in October of 2001. One of them, New York City firefighter Nicholas DeMasi, described the recovery of the devices in a book. 55 (Gail Swanson, Behind-the-Scenes: Ground Zero, A Collection of Personal Accounts, available at this link: <a href="http://www.summeroftruth.org/groundzero.html">http://www.summeroftruth.org/groundzero.html</a>) Additionally, a source from the National Transportation Safety Board (NTSB) said, "Off the record, we had the boxes. You'd have to get the official word from the FBI as to where they are, but we worked on them here." 56 (Jim Hoffman, Black Boxes: Contents of Flight Data and Cockpit Voice Recorders Are Missing, 911research.wtc7.net)

The idea that the indestructible black boxes could not be found also appears to be in contradiction to the official claim that a passport of one of the alleged hijackers was found. On September 12th, 2001, it was reported that the passport of Satam al Suqami, who was said to be aboard American Airlines Flight 11, was recovered. 57 (ABC News, Terrorist Hunt: Suspects ID'd; Rescue Efforts Go On; White House Originally Targeted, September 12, 2001.) Because Flight 11 crashed directly into the middle of the north face of the north tower, and was buried within the building, this passport would have had to stay intact throughout the crash event and then withstand the blast from the fuel fire and the ensuing fires fed by office furnishings (and thermitic materials). The rest of the spectacularly improbable path of the passport is not entirely clear, as the first reports said that it was found "in the rubble" but, later, 9/11 Commission staff member Susan Ginsberg testified that "A passerby picked it up and gave it to a NYPD detective shortly before the World Trade Center towers collapsed." 58 (Susan Ginsberg testimony to National COMmission on Terrorist Attacks Upon the United States, Public Hearing, Monday, January 26, 2004.) In other words, the passport was delivered through Bernard Kerik's department.

During the five-month cleanup effort, there were unprecedented measures taken to control access to the site. The site was restricted, and photographs were banned, by order of Rudy Giuliani. 59 (Jim Hoffman, Access Restrictions: The Closure of Ground Zero to Investigators, 911research.wtc7.net) Anthony Mann of E.J. Electric, one of the contractors for the WTC towers, said that "Security is unbelievable. It's really on a need-to-be-down-there basis." 60 (Amy Florence Fischbach, CEE News, September 20, 2001.)

Several people were reported to be in charge of the cleanup operation at Ground Zero. It was said that OEM was in charge, and that Richard Sheirer was the point person for the cleanup

efforts. Others believed that Mike Burton, the executive deputy commissioner of the New York City Department of Design and Construction (DDC), was in charge. [begin page 253] Although Burton managed some of the demolition and cleanup operations, he later testified that "Everything was coordinated through his boss Holden, deputy mayors and the mayor." 61 (Wayne Barrett and Dan Collins, <u>Grand Illusion</u>, Harper Collins, 2009, p. 257)

After his WTC work was done, DDC's Burton was hired as Senior Vice President of URS Corporation. URS is the same company that bought The Washington Group (i.e. Morrison-Knudsen), the south tower tenant that, in the preceding years, had been hired by the Army Corps of Engineers to demolish over 200 buildlings. 62 (Mark MacIntyre, Bunker Hill: light at the end of the tunnel, The Seattle Daily Journal of Commerce, Aug. 20, 1998.)

At Ground Zero, DDC handed over the most important of its decision-making responsibility to LZA/Thornton-Tomasetti, whose leaders were Charles Thornton, later a member of the advisory board for the NIST WTC investigation, and Richard Tomasetti. The importance of LZA/Thornton-Tomasetti became clear when someone needed to take responsibility for the decision to recycle all the steel evidence. It was finally said that Richard Tomasetti made that decision, despite the outrage from the public, fire engineering experts and the victims' family members. When asked why he did it, Tomasetti claimed that "had he known the direction that investigations into the collapses would take, he would have taken a different stand." 63 (History Commons Complete 9/11 Timeline: Profile for Richard Tomasetti)

The recycling of the most important steel evidence was done in a hurry, as indicated by the U.S. House Committee on Science report mentioned earlier. It was done so fast, in fact, that the City took much less than market value for the scrap metal. At the time, steel scrap was selling for \$150 per ton, but those in charge of the WTC cleanup took just \$120 per ton for the WTC steel. 64 (China.org.cn, Baosteel Will Recycle World Trade Center Debris, <a href="http://china.org.cn/english/2002/Jan/25776.htm">http://china.org.cn/english/2002/Jan/25776.htm</a>) It's not difficult to see that the \$9 million lost in that transaction would have been useful to the many 9/11 first responders who became gravely ill from their exposure to toxins at Ground Zero.

Tomasetti's extremely unpopular, and possibly criminal, decision was supported by the new mayor of NYC, Michael Bloomberg. Using a strange, diversionary excuse, Bloomberg said: "If you want to take a look at the construction methods and the design, that's in this day and age what computers do. Just looking at a piece of metal generally doesn't tell you anything." Bloomberg's claim was not at all true, as forensic investigators will confirm. [begin page 254]

Other than the supervisory firm LZA/Thornton-Tomasetti, the City also hired five construction companies to handle the majority of the debris removal, and the site was divided up among them. These five companies were AMEC Construction Management, Bovis Lend Lease, Turner Construction, Tully Construction and Tishman Construction. Charlie Vitchers, who worked for Bovis, said the site was then broken up "into basically five segments. Building 7 debris was given to Tishman. The northwest corner of the site was given to AMEC. The northeast section of the site was given to Tully. And the southwest corner of the site and Tower 2 debris removal was given to Bovis." 65 (PBS, Interview with Charlie Vitchers for the film "America Rebuilds: A Year at Ground Zero") Turner Construction was assigned to a central location between building 5 and building 6.

Other sub-contractors were hired to complete most of the actual debris removal. Most of those companies were suspected of being associated with organized crime. Some sub-contractors were reportedly linked to the Colombo crime family, including Civetta Cousins and Yonkers Contracting. Others were associated with the Luchese crime family.

A contractor with a big presence at Ground Zero was Seasons Contracting, owned by Salvatore Carucci, a reputed Luchese associate. "We were called in by AMEC, one of the team of general contractors managing the cleanup," said Bill Singley, a Seasons project manager. AMEC also hired Big Apple Wrecking, owned by Harold Greenberg, a reputed mob associate whose firm was barred from government work because of his convictions in bidrigging and bribery conspiracies. Another firm allegedly controlled by Greenberg, Safeway Environmental, was also hired to work at Ground Zero.

One of the first debris removal companies on the scene was Mazzocchi Wrecking, brought in by the New York City Housing Preservation Department, but then hired by AMEC. A few months after 9/11, the N.J. Division of Gaming Enforcement "charged that three members of the DeCavalcante crime family worked for Mazzocchi." 66 (New York Daily News, Exposed: Map of Ground Zero spoils: Where the money went to clear Trade Center debris, cached at AsthmaMons 9/11 WTC Environmental Health News, http://www.asthmamoms.com/worldtradecenter2005.htm [dead link]) Another member of the DeCavalcante family, Thomas Vastola, was known to be an associate of a BCCI-backed arms dealer. 67 (Peter Truell and Larry Gurwin, False Profits: The Inside Story of BCCI, The World's Most Corrupt Financial Empire, Houghton Mifflin, 1992, p. 181.)

Other AMEC contractors that were linked to the mob were Peter Scalamandre & Sons, and Breeze National, both linked to the Luchese [begin page 255] crime family. AMEC's lead person on the ground was Vice President DiRubbo, a reputed associate of the Luchese crime family. Another company that was "all over ground zero" was Laquila Construction, run by mob boss Dino Tomassetti. 68 (Charles V. Bagli, US: At Ground Zero, Builder Is Barred but Not His Kin, The New York Times, July 21st, 2006, accessed at CorpWatch)

These companies all made a lot of money at the WTC site. Of the \$458 million in federal 9/11 aid spent on debris removal, AMEC took \$65.8 million, Bovis hauled in \$277.2 million, Tully got \$76 million and Turner got \$39 million. Subcontractors Breeze National, Peter Scalamandre & Sons, Civetta Cousins, Safeway Environmental and Yonkers Contracting made millions of dollars from their work at the site. Subcontractors Mazzocchi Wrecking and Seasons Contracting made tens of millions of dollars.

Turner Construction, one of the primary contractors at Ground Zero, occupied the 38th floor of the north tower, and was involved in performing the fireproofing upgrades in the towers. It has been noted that these upgrades were completed, in the three years before 9/11, on floors that match up almost identically to the floors of impact and failure on 9/11. 69 (Kevin R. Ryan, Another amazing coincidence related to the WTC, 911Blogger, January 6, 2008.) In any case, since 1999 Turner has been a wholly owned subsidiary of Hochtief AG, and its CEO is Thomas Leppert, who later became mayor of Dallas. President George W. Bush appointed Mayor Leppert to the President's Commission on White House Fellows, and Bush now lives in

Dallas, about a mile away from Leppert. 70 (Aidan Monaghan, Pre-9/11 WTC Steel Fireproofing/Post-9/11 Ground Zero Clean-Up Contractor, Planned 2000 Seattle Kingdome Demolition, 911Blogger.com, March 4, 2009.)

Of the other primary contractors, Tishman Construction oversaw the construction of the new WTC 7, as well as the "Freedom Tower," designed to replace the north tower. Tully Construction retained Controlled Demolition Inc. (CDI), a company that had been involved in the demolition of the bombed Murrah Building in Oklahoma in 1995. CDI was led by Mark Loizeaux, who later became a major defender of the government's story about 9/11. Like some other experts with large government contracts, Loizeaux was at first uncertain about what had happened at the WTC, then he changed his opinion, apparently in order to harmonize with the official story. 71 (Jim Hoffman, Notable Retractions: Experts Change Their Tune to Harmonize with the Official Story, 911research.wtc7.net) [begin page 256]

Once the cleanup was fully coordinated, the operations were consolidated under the control of two of the five primary contractors: AMEC Construction Management and Bovis Lend Lease. These are the two companies that were originally assigned the areas of Ground Zero that included the north tower (AMEC) and the south tower (Bovis).

At Ground Zero AMEC was led by its Vice Chairman, John Cavanagh, who had previously been the President and COO of Morse Diesel International, the predecessor to AMEC. Morse Diesel had also retrofitted WTC building 7 for Salomon Brothers in 1989. But at the time of the 9/11 attacks, Cavanagh reported to Peter Janson, the CEO of AMEC Construction and long-time business associate of Donald Rumsfeld. Under Janson's leadership, AMEC had just completed a \$258 million refurbishment of Wedge 1 of the Pentagon, exactly where American Airlines Flight 77 impacted the building. 72 (U.S. Department of Defense, News Transcript, Mr. Lee Evey, Pentagon Renovation Manager, September 15, 2001.)

Bovis Lend Lease was another British construction giant founded by Sir Frank Lampl, a Czech holocaust survivor who worked in the Middle East in the 1970s. 73 (Wikipedia page for Frank Lampl) The company built the Abu Dhabi Chamber of Commerce and the Riyadh Olympic stadium in Saudi Arabia.

Years later, Bovis project leader Jim Abadie was also in charge of the Deutsche Bank demolition and the September 11<sup>th</sup> memorial. This was before he resigned in the midst of an investigation into billing and payroll practices at five Bovis projects in New York, including the memorial and Deutsche Bank. <sup>74</sup> (Douglas Feiden and Greg B. Smith, James Abadie, executive at Bovis Lend Lease in charge of Sept. 11 Memorial, resigns amid probe, New York Daily News, June 15<sup>th</sup> 2009) For the Deutsche Bank demolition, in 2004, Abadie hired a previously non-existent company called John Galt Construction. <sup>75</sup> (Charles V. Bagli, David W. Dunlap and William K. Rashbaum, Obscure Company Is Behind 9/11 Demolition Work, The New York Times, August 23, 2007.) After the deaths of two firefighters during the demolition project, John Galt was found to be in the middle of a multi-million dollar "check-cashing" scandal led by two characters named Riad Khalil and Neil Goldstein. <sup>76</sup> (Colin Moynihan, 2 Charged in Check Scheme Uncovered After Bank Fire, The New York Times, July 28, 2009)

Also involved in the Deutsche Bank demolition was Charles Schwab, an associate of Harold

Greenberg who "once controlled seven banks, a casino in Reno and a big chunk of Hilton Head Island [and] the largest demolition company in the country." 77 (William K. Rashbaum and Charles V. Bagli, Demolition Man, The New York Times, July 31, 2009) Schwab was also associated [begin page 257] with Phoenix Wrecking, a demolition and abatement company. It's not clear if this is the same company as the Phoenix Fireproofing listed in FOIA-obtained documents related to the WTC fireproofing upgrades. 78 (See WTC Fireproofing Documents obtained by James Gourley via FOIA, 911blogger.com, February 2, 2009) But it is clear that mayor Bloomberg's office and the Lower Manhattan Development Corporation (LMDC) were aware of the suspicious companies involved in the Deutsche Bank fiasco. 79 (Charles V. Bagli and William K. Rashbaum, Questions on City's Role in Demolition Near 9/11 Site, The New York Times, August 29, 2007)

LMDC was mandated to "alleviate existing conditions that pose a serious and immediate threat to the health or welfare of New York City or meet community development needs resulting from Sept. 11, 2001." In practice, this meant that LMDC made a lot of the decisions about what happened at Ground Zero after the cleanup and perhaps even before it was completed. LMDC was created by Governor Pataki and Mayor Giuliani without approval from the state legislature, in November 2001. 80 (The New York Times Investigative Team: Russ Beuttner, Heidi Evans, Robert Gearty, Brian Kates, Greg B. Smith and Assistant Managing Editor Richard T. Pienciak, Ground Zero: \$2.7B money pot, December 6, 2005, http://listserv.fsl.com/pipermail/wtcrc/2005-December/000032.html)

The federal government promised \$21.4 billion in aid in order to rebuild Manhattan, and LMDC was in charge of spending a great deal of that money. Unfortunately, much of it was doled out in pork projects that benefited friends of LMDC.

A good friend of George W. Bush was a director of LMDC. This was Roland Betts, who once owned the Texas Rangers with Bush and Bush's relative, Marsh & McClennan's Craig Stapleton. Betts was also a "heavy contributor to the Bush election campaign in 2000." 81 (Wikipedia page for Roland Betts) Another LMDC director was Frank Zarb, who was one of the first U.S. Energy Czars, appointed by President Ford. 82 (The initial directors of LMDC are listed in documents obtained via FOIA request by Cryptome, <a href="http://cryptome.org/wtc-foia.htm">http://cryptome.org/wtc-foia.htm</a>)

#### **Debris Removal and Theft**

The debris removed from Ground Zero was either hauled away on trucks or shipped away on barges. Despite the effort to rapidly dispose of the steel and sell it a bargain price, the WTC debris was considered highly sensitive. At first the trucks were tracked using a paper-based system, and later GPS devices were fixed to each truck with "antennas to monitor location, cellular wireless antennas to communicate, and multiple I/Os to track vehicle signals from engine systems." 83 (Jacquiline Emigh, GPS on the Job in Massive World Trade Center Clean-up, Access Control & Security Systems, Jul 1, 2002) Apparently it was important for officials to know not only where the trucks were at any given time, but also the status of the engine. As for [begin page 258] the barges, the process was setup "in record time," in order to "transport debris to the city's Fresh Kills landfill and to recycling sites, all scrutinized by the Corps of Engineers." 84 (Debra K. Rubin, Creating order from chaos in leading the public-private construction team that responded to the Sept. 11 devastation at Ground Zero,

Engineering News-Record, April 22, 2002)

As the debris was received at Fresh Kills landfill, it was sorted carefully. This sorting process was supervised by federal agents, and described in this way: "Teams of officers and agents watch as the rubble is sifted down to a fine ashy silt that they then rake through by hand." 85 (NPR News, Sifting Through the WTC Rubble: 'Ground Zero' Effort Nears End, Search Continues at Fresh Kills, May 30, 2002)

More than a year later, honest FBI agents reported the theft of some of this debris at the Fresh Kills site. It was then discovered that Evidence Recovery Teams (ERTs) involved in the sorting process stole pieces of debris, and kept or disposed of them. This removal of debris was condoned and encouraged by the FBI agents in charge.

The final report on the debris theft concluded that "many FBI agents took rubble as souvenirs from Fresh Kills." An example given was that one Oklahoma City Emergency Response Team member took 80 pounds of various debris materials, including things like an "electrical outlet." More commonly, building pieces were taken, including "red granite building facade." The claim that these were merely souvenirs seemed unlikely considering the volume of materials stolen, and considering that WTC building 7 was the focus of much of the theft. In fact, pieces of the building "were stacked in a designated location of the Building 7 inspection area" in order for Secret Service agents to retrieve. 86 (Ibid.)

Pat D'Amuro, who was mentioned earlier as an employee of Giuliani Partners, was involved in the theft of WTC debris materials from the Fresh Kills site. D'Amuro had specifically requested that certain kinds of items be kept for his retrieval, ostensibly so that he could give them away as mementos to various dignitaries. What is odd about that is that D' Amuro was not in charge of the Fresh Kills operation, but he had been the counterterrorism chief in the FBI's New York City office since 1997, which meant that his responsibilities included oversight of the Joint Terrorism Task Force.

As the FBI's lead person in terms of investigating and preventing terrorist acts before 9/11, D' Amuro had also been appointed to lead [begin page 259] the investigations of the 1993 WTC bombing and other al Qaeda- attributed crimes. The 1993 bombing plot had been infiltrated by the FBI, which played a role in either trying to prevent that operation or allowing it to go forward, as described in Chapter 4. It was later claimed that the investigation of the bombing, led by D'Amuro, was fraudulent, Frederick Whitehurst, of the FBI crime laboratory, said that "attempts had been made to alter his lab reports to exclude scientific interpretations other than" the official explanation. Whitehurst went on claim that FBI leadership had been altering evidence and test results a number of years, in order to support pre-determined conclusions. <sup>87</sup> (John Kelly and Phillip Wearne, Tainting Evidence: Inside The Scandals At The FBI Crime Lab, The Free Press, 1998, pp 162-167)

Despite failing to follow-up on any of the leads that could have prevented the attacks of 9/11, D' Amuro was placed in charge of the PENTTBOM investigation immediately after the attacks. 88 (Federal Bureau of Investigation, <u>Bios of James T. Caruso and Pasquale J. D'Amuro</u>, January 31, 2002, http://www.fbi.gov/pressrel/pressrel02/mueller013102.htm [dead link]) PENTTBOM stood for Pentagon/Twin Towers Bombing and was notable for how quickly the

case was solved. U.S. authorities claimed to have had little knowledge of or ability to stop the 9/11 attacks in advance yet, within 72 hours after the attacks, the FBI was able to identify all nineteen alleged hijackers. 89 (Federal Bureau of Investigation, FBI Announces List of 19 Hijackers, September 14, 2001, http://www.fbi.gov/pressrel/pressrel01/091401hj.htm)
[...]

End excerpt from Kevin Robert Ryan, <u>Another Nineteen: Investigating Legitimate 9/11 Suspects</u>, Microbloom, 2013, pp. 251-259

# **Appendix 4**

### Changes to second edition, not all listed

Full page image on page 3 swapped out from the B-1 drawing in the Merritt & Harris "Property Condition Assessment of World Trade Center Portfolio" [Subgrade - PDF], 2000 [images]. The replacement image of the debris field shot from helicopter on 9/11 is rare.

### <u>Introduction</u>

Added/reworded sentences in last few paragraphs, mentioning the Patriot Act and linking to Graeme MacQueen's book (<u>summarized here</u>), titled <u>The 2001 Anthrax Deception: The Case for a Domestic Conspiracy</u>, Clarity Press, Inc., Atlanta, 2014.

### Available Images

Added link to <u>FEMA website video</u>. Fixed links.... Relevant quote added only here in the appendix:

"There wasn't much to look at as I stood in a crowd on the corner of Chambers and Greenwich, about four blocks north of Ground Zero, but out of a lifetime of habit I raised my Leica to my eye, simply to get the feel of what was there. Whack! Someone behind me poked me sharply in the shoulder. "No photographs buddy, this is a crime scene!" I whipped around and found myself face to face with a belligerent female police officer. I was furious-both at being hit and at the absurdity of the command. "Listen, this is a public space," I replied. "Don't tell me I can't look through my camera!" But she came right back at me with "You give me trouble and I'll take that camera away from you!" "No you won't," I said. "Suppose I was the press?" "The press? There's the press," she said, imperiously jerking a thumb over her shoulder at about a dozen TV cameramen and reporters, roped off by yellow police tape, halfway up the block. "When are they going in?" I asked. "Never," she said. "I told you, this is a crime scene. No photography!" - Joel Meyerowitz, Aftermath, Phaidon Press Limited, New York, 2006, p. 16.

#### Miracle

Added blockquote:

"I expected, especially with the South Tower, Tower 2, that the upper part of the tower would have tumbled over like it started to do.... All my years of going to building collapses and seeing buildings with Rescue 3 at the Collapse Unit, and studying building collapses, this is just phenomenal, both of them. I could see if one came down, but both of them coming down is mind boggling."

- Firefighter Ray Phillips in WTC In Their Own Words, Harvey Eisner, Ed., Cygnus Business Media, 2011, p. 122. (emphasis added)

#### Investigations

Added sentence below first quote: "Hear <u>Firefighters for 9/11 Truth speaker Eric Lawyer</u> explain what a basic investigation should entail."

Added to first paragraph: "More money was spent in 1998 for President Bill Clinton's sex scandal – a lot more." Added sentence to last paragraph before Second Plane section: "Even if NIST made any solid findings, it wouldn't matter legally:

"No part of any report resulting from a NIST investigation into a structural failure or from an investigation under the National Construction Safety Team Act may be used in any suit or action for damages arising out of any matter mentioned in such report (15 USC 281a; as amended by P.L. 107-231)."

- Final Report on the Collapse of the World Trade Center Towers [NCSTAR 1], Sept. 2005, p. ii.

Retitled "The Second Plane" section to "Second Plane Impact Error."

Added sentence to final page mentioning the 9/11 Commission Report: "As for their scientific details about the WTC: "The interior core of the buildings was a hollow steel shaft, in which elevators and stairwells were grouped." (9/11 Commission Report; NOTES; Chapter 9 Heroism and Horror; Note 1, 9-11commission.gov)"

#### Fresh Kills

Added to and changed final paragraph, etc. Images and links added.

### **Bodies**

Added "Contradicting *USA Today* in 2011 FDNY's <u>Lee lelpi said</u> 128 of 343 firefighters were never found/identified. (Repeated in 2011 by WTC In Their Own Words, Harvey Eisner, Ed., Firehouse Magazine/Cygnus Business Media, 2011, p. 176.)"

Added sentence to 2<sup>nd</sup> paragraph under heading "Missing" – "See "<u>Lessons Learned From 9/11: DNA Identification in Mass Fatality Incidents,</u>" U.S. Department of Justice Office of Justice Programs, Sept. 2006 – especially Appendices B, C, and D."

Added sentences to "first major error" paragraph: "Thanks to Mike Hennessey of Gene Codes Forensics for developing the <u>Administrative Review Process</u> while working at the OCME DNA ID unit. (Click above link for Hennessey's informative PDF document.)"

Added **a bit** to paragraph starting, "In all there were 6 DNA laboratories ... an entire field of experts **gathered by the** National Institute of Justice convened on a regular basis..."

Added after mentioning chain of custody proof: "Right? Or was there too much gore and resultant chaos to prove on paper who brought what from where and when? After all, as news media has told us, 30,000 body [part] bags were shipped to NYC."

Added sentence to caption of Memorial Park trailers photo: "Remains are preserved at the WTC Repository, at bedrock level between the tower pools."

Added "An unknown percentage of the time" before the original "When a body or body part was found at Ground Zero, the spot was marked and noted."

#### Survivors

Added several FDNY and one civilian from Harvey Eisner's WTC: In Their Own Words, op cit.

#### Evacuees – 102 Minutes

Added to second paragraph: "See a docu-drama act out the events inside the towers: "Inside

the Twin Towers," Discovery Channel, 2006 (a Dangerous Films production for BBC, RTL [Germany] and France 2.)"

Added sentence to end of paragraph on Larry Silverstein: "But this is hearsay."

Added link to NIST chart showing where jet fuel "was <u>smelled by numerous people in different</u> places."

Not added [except bold]) Lt. William Walsh WTC Task Force Interview 9110442, Jan. 2002.

"So we had parked the apparatus right in front of the glass overhang on West Street, which is the main entrance to World Trade Center number one. We all gathered our tools, and we headed to through the front door.

Now, the front door is a revolving door. There is a vestibule of about ten feet, let's say, and there's another revolving door. There I noticed two civilians that had more than third degree burns.

They were in pugilistic position. They were black, burnt. Their skin and their clothes were burnt off. They were smoldering, and they were trying to get up. They were just moving around. I had estimated they had less than half a minute left in their lives. So we had just passed them by.

What I observed as I was going through these doors and I got into the lobby of the World Trade Center was that the lobby of the Trade Center didn't appear as though it had any lights.

All of the glass on the first floor that abuts West Street was blown out. The glass in the revolving doors was blown out. All of the glass in the lobby was blown out. [false]

The wall panels on the wall are made of marble. It's about two or three inches thick. They're about ten feet high by ten feet wide. A lot of those were hanging off the wall.

#### Q. Wait a second. (Interruption)

A. What else I observed in the lobby was that -- there's basically two areas of elevators. There's elevators off to the left-hand side which are really the express elevators. That would be the elevators that's facing north. Then on the right-hand side there's also elevators that are express elevators, and that would be facing south. In the center of these two elevator shafts would be elevators that go to the lower floors. They were blown off the hinges. That's where the service elevator was also.

- Q. Were these elevators that went to the upper floors? They weren't side lobby elevators?
- A. No, no, I'd say that they went through floors thirty and below.
- Q. And they were blown off?

A. They were blown off the hinges, and you could see the shafts. The elevators on the extreme north side and the other express elevator on the extreme south side, they looked intact to me from what I could see, the doors anyway."

Added sections "9 Seconds" and "Floor 22." Made numerous updates to previous edition.

#### Airplane Debris

Added many images and pages full of links to create an exhaustive list. Added sections "FEMA's Fuselage Fib" and "The Engines."

#### Dust

Added image from Cate Jenkins, Ph.D., showing pH levels. Also added text to support it.

Added EPA image showing the New York Stock Exchange with a vacuum truck working in the street out front.

### **UPDATE 2017: Changes To 3rd Edition** (not all listed):

On page 2 I added the B6 drawing from Merritt & Harris, Inc. "Property Condition Assessment of WTC Portfolio, Subgrade," 2000 (PDF 8.29 MB). With the note, "Up to 75 ft. deep."

<u>Introduction</u>: Changed sentence regarding anthrax to say "US-made" instead of "deadly" – Meanwhile, the controversial <u>Patriot Act was pushed into law</u>, only after "the two primary holdouts" in the Senate received <u>US-made anthrax letters</u>.

<u>Available Images</u>: Added a full page image from Mike Davis, WTC 1 on 9/11 at 12:03. Fixed numerous links to images no longer shared freely on Photobucket. Moved image from page 2 as replaced above, and to credit NYPD adding another link to my article "Case of the Missing NYPD Helicopter Photos" introducing <u>Det. Dave Fitzpatrick</u>. This edition's update will be primarily to fix dozens of image links.

Noticed broken links when looking for <u>Engineering News-Record</u> Oct. 29 PDF now on my website, but originally once here: <u>http://old.911digitalarchive.org/crr/documents/1416.pdf</u> and a <u>similar one Oct. 8</u> now only hosted on my website.

<u>Building 7</u>: I fixed the image caption link for <u>Tim Tobiason</u> and added: "Smart people are on both sides, but I agree with the conspiracy theorists... and <u>Firefighters for 9/11 Truth</u>... and the <u>University of Alaska Fairbanks study</u>." Also I added an image from NOAA showing the building pile, and another image of the pile on 9/11. Also I added a good conversation about Larry Silverstein and "pulling it." Plus, this: "According to NIST it was 2 cars "ejected" into the hall. (NCSTAR 1-9, op cit., <u>p. 300</u>)"

Also added, "The <u>WB11 helicopter captured</u> one of two such boats about 12:30 pm. Melinda Murphy mentions the capabilities. The fire could have been fought, it would seem." And: "<u>Building 6</u> was getting water. <u>As was WTC 3</u>... at low pressure, granted. And <u>90 West St.</u> – all before WTC 7 went down."

Also I moved the discussion of the WTC 7 eroded steel from "Molten Steel" to "Building 7."

Investigations: Not added: I should mention the FBI's <u>PENTTBOM investigation</u>, or "Pentagon/Twin Towers Bombing Investigation." They pinned it on the terrorists who so nicely left bread crumbs at <u>flight schools</u> and in their cars or luggage. <u>Case closed</u>.

Fresh Kills: Added a link to a French TV clip of debris raking, the conveyor belts, and the airplane parts. Added the following paragraph - and a photo from Amy Mundorff's thesis: "Out of the 21,906 separate body parts found in total from Ground Zero and Fresh Kills, less than 2,500 were from the landfill. (Out of the roughly 5,000 individual evidence vouchers sent to the Medical Examiner's Office [OCME] for DNA testing.) "Since an anthropologist was discarding nonhuman remains at the landfill operation through December 31, 2001, most of these 2,500 nonhuman cases sent to the OCME and subsequently discarded were likely sent after there was no longer an anthropologist sorting them at [Fresh Kills]." (Amy Mundorff, op cit., p. 101) From restaurants, etc. Human remains are covered in the chapter Bodies."

<u>Source</u> (PDF 13.13 MB): <u>Amy Mundorff</u>, "Human Identification Following The World Trade Center Disaster: Assessing Management Practices For Highly Fragmented and Commingled Human Remains," 2009.

Recycle: Correction: Ms. Neu said "Blandford Land Clearing," but the correct name is Blandford & Co.

<u>Bodies</u>: Added Mundorff's insight to the 4,257 number. At Fresh Kills "there were 4,257 [supposed] human remains found. However, some of these were found by anthropologists to be nonhuman remains, likely after December 31, 2001, when they stopped going to Fresh Kills for that purpose. 'Nearly 2,500' nonhuman remains came from Fresh Kills, and were discarded at the OCME before DNA testing. (<u>Amy Mundorff</u>, op cit., p. 101 - PDF 13 MB)"

Survivors: Added Arthur Del Bianco, quoting from his appearance on TV.

9 Seconds/Floor22: Added a slide from NIST explaining the damage on floor 22.

#### Airplane Debris: Added preface quote:

"When we went outside building number four, we see plane parts all over the place. I used to work in aviation."
- Arthur Del Bianco, from his hospital bed on <u>CBS Sept. 13 at 11:39 am</u>. (mirror)

Added links to my studies on passenger DNA/remains/belongings recovered: <u>article</u> or <u>video</u>. Added images and caption: "American Airlines <u>life vest</u> and <u>jump seat</u> (enlarge) south of the towers. Source: <u>Lance Boyle</u> (beware Photobucket ads)" Added: "What should we make of the <u>Mohand al-Shehri boarding pass</u> found in the trash at Boston Logan Airport, on display at the 9/11 Museum? Read more at 911research.wtc7.net."

In "FEMA's Fuselage Fib" I removed the Error Level Analyses images (updated <u>ELA seen in my video here</u>) and the <u>Photoshop image</u>, then replaced with a <u>newer Photoshop job</u>, since I recently discovered the <u>2012 NTSB FOIA Appeal image</u> showing the smaller fuselage piece in detail.

<u>Specific Items Recovered</u>: Added image of passenger Judy Larocque's driver's license and credit card, plus a link to AA11 passenger Waleed Iskandar's credit card and UA175 passenger Lisa Frost's frequent flyer card... plus links to my article "<u>9/11 Passengers' DNA (WTC)</u>" and video, "<u>9/11 Passengers Identified from Ground Zero, WTC Plane Parts.</u>" (also linked in Airplane Debris)

<u>Dust</u>: Added a link to Frank Greening's <u>new WTC dust study</u>.

#### **UPDATE 2018**

Not added except here:

<u>Available Images</u>: Another example of the ban on cameras at Ground Zero comes from NIST FOIA 09-42, 911datasets.org release 10, WTCI-30-NYC\_Pt3of6.wmv, a rare video of the debris pile on an unknown date. Find on <u>YouTube here</u> or download in full at <u>archive.org</u> here.

<u>Airplane Debris</u>: Regarding the terrorist's passport, consider that other aircraft crashes have turned up passports – <u>MH17 in 2014</u> and <u>unknown</u>, for example.

This idea and many more additions or corrections in this edition are being discussed at the <u>International Skeptics Forum here</u>.

For example, it was suggested I add the fact that each WTC tower (everything above the first floor) had the potential energy of about 115 tons of TNT. That fact went into the Investigations section, replacing an error on my part... which was about the 5<sup>th</sup> anniversary Bush speech when he said KSM and his operatives had planned to bomb buildings at "a point that was high enough to prevent people trapped above from escaping." I had mistakenly connected the WTC to be those buildings, <u>as others have</u> on YouTube, "Bush talks about EXPLOSIVES in building (on 9/11?)". That linked video may have been what got me to re-post it on my channel CTV911 and link to it on my website! So I just renamed the video on YouTube to "K.S. Mohammed admits more planned attacks on buildings after 9/11" and removed its 2 links in this book.

Thanks to all who helped.

#### RETURN TO TOP

Find me <u>on Facebook</u> or visit my blog at <u>911conspiracy.wordpress.com</u>. My website and video collection: <u>911conspiracy.tv</u>.

Thanks for reading. Peace.
-Matt Nelson
September, 2018